

Qy 677 TGTGTGGGAGATTTCCCTGAGTCAATTGATTGATTTGAGTTGAGTTGAAAGAAC 736
 Db 1030 CATTCTGGGAGCTTCTTCTATAAGGAACTTCAGAGATGTCAGGCTCTCAAGATGT 1089
 Qy 737 TCAATGGGAAATATGTTGAGACGGTGAACCCAAAAGTGAATTGAAAGATTCA 796
 Db 1090 TGAATGGGGAAATGGAGCTTCTTAAGCAAAAGACCCCTGCTGA 1149
 Qy 797 CTTACCATGAACTTAACTGACGGTGCCTTATGAAATGAGCTTACCAAAAGGACA 856
 Db 1150 AATATACTTGGTAGTGGAGAACACATTTACAC-----CTAACCA 1191
 Qy 857 ACATCTCCAGGAAACCCCCATAACATTGAGATTTGGCAGTGGCTTATTTTG 916
 Db 1192 ACAAGAGAGATCTCCCTTATTTAACTATGTTACGGAACTGGTACATTG 1251
 Qy 917 TTAAAGTCAGATTGTTAAATTCACAACTCCATCGCTCAAGACATTGTTG 976
 Db 1252 TGGCTTCCCGAGATTGCTCAAATGTTGAGACCCCTAAATCCCAAACTGATTTG 1311
 Qy 977 CCTGGTCTAAAGAACACATCTCCTGATGAGGAACTTTGGCTACCTGATTGGGTTC 1036
 Db 1312 AATGGTAAAGAACATTAAGCCAGAACCTTAAAGGAACTTAAAGGAA 1371
 Qy 1037 CAGGAAATACCTGGGAGATTCCGATCAGCCAGGATG---TGCTGATCTGGCAGATA 1093
 Db 1372 GGTGGATGCGCTCTGTTCCACCCCGAAATGAGACATCTGAGCTTCTCTA 1431
 Qy 1094 AGACTGGCTGTCAGTGGAAATFACTATGAAAGCTTTCTATCCAGT----- 1143
 Db 1432 TTGGCCGGCTCACCTTGGAGCTTGTAGTGGCAGGTCATGGGGAGACATCGATAAGGGTCTCCCTTATG 1491
 Qy 1144 ---TGATCTGGATCTGAGTGGACATTGTTGAGGTGTGTTATTATGGCTGCAAAATTAAAGGT 1198
 Db 1492 CTCCCTGCTCTGAGATCCACGGGGCTATCTCGTTTATGGCTGGGAACTGAAATT 1551
 Qy 1199 GGCTTATCAAAAGATGGACATTGGCTAAATAATTGATTGATTCTAGGTGACACCCTATCT 1288
 Db 1552 GGATGGCTAAACCATCACCTGTGGCAACAGTTGACCCAAAGTAGATGATAATG 1611
 Qy 1259 TGATTTAAATGCTGGCAGAAAGGT 1283
 Db 1612 CTCCTAGTGGTAGAGATACCT 1636

RESULT 2
 US-08-118-906-13
 ; Sequence 13, Application US/08118906
 ; Patient No. 544590
 ; GENERAL INFORMATION:
 ; APPLICANT: Fukuda, Minoru
 ; ADDRESS: Bierhuisen, Marti F.A.
 ; TITLE OF INVENTION: Expression of the Developmental I
 ; TITLE OF INVENTION: Antigen By A Cloned Human cDNA Encoding a Member of a
 ; TITLE OR INVENTION: Beta 1,6-N-Acetylglucosaminyltransferase Gene Family
 ; NUMBER OF SEQUENCES: 14
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEES: Campbell and Flores
 ; STREET: 4370 La Jolla Village Drive, Suite 700
 ; CITY: San Diego
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 92122
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-POS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/118, 906
 ; FILING DATE: 09-SEP-1993
 ; CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Kathryn A.
 REGISTRATION NUMBER: 31,815
 REFERENCE DOCKET NUMBER: P-LJ 9526
 TELEPHONE: (619) 535-9001
 TELEFAX: (619) 535-8949
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1807 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 255..1454

US-08-118-906-13

Query	Match	Score	DB	Length
Qy	327 TTGAGAATTATCAGACTCTAAGGGTATGTCAAAGCTGTCTAAAGGAGAGA	13.67	2	1807;
Db	467 TTGAGGAAATACCTGACCAGGCCACTACATCACGCCCTTATCTAAGGAGACC	0	52.11	DB 1;
Qy	387 AAGCTTCCAAATGCCATTCTGGTTCATATATAATGGTATCCATCATGAC	0	52.11	Length 3;
Db	527 TGAATTCCCTGGCATATATAATGGTATCCATCATGACCTTGACACCTTG	0	52.11	Indels 24; Gaps 3;
Qy	447 TATCCATGCTTATACAAACGCCAAATTTACTGCAATCCATTATGATGTTAGGC	0	52.11	Matches 438; Mismatches 0;
Db	587 CTGAGGGTTTACATGCCCAAAATATCTGTTCTGTTCTGTTCTGTTCTG	0	52.11	Score 13;
Qy	507 TGTACCTTCAAACTGGCATGACAATTTAGCTTAAGTCTCTCCAAATTTCTGC	0	52.11	Best Local Similarity 52.11;
Db	647 AACTTGAAATTAAAGTGGCTTGGCTTGGCTAAGCTTCTGTTCTGCTTCTG	0	52.11	Pred. No. 6..4e-13;
Qy	567 TTCCAAATTAGAGGCTTGGCTAAGCTTCTGAGCTTCTGCTTGGCTTGGCT	0	52.11	Best Local Similarity 52.11;
Db	707 TTCCAAAGTGGAACTGGTGTCTGTTGAGGGATCTCAGCTCCGGTGAAGCTG	0	52.11	Score 13;
Qy	627 CTTGCGGACTCTGAACTCTCAATCCAGTGGAAATATGTTTATGCTGGCTA	0	52.11	Length 1807;
Db	767 CTCAGGAGCTTCTGCCCTTGAGGTCTCATGAAAGTGTCAAGCTCTGGGAA	0	52.11	Best Local Similarity 52.11;
Qy	687 AGATTTCCCTGAGTCGAATTGGTGTCAAGTGTGAAAAACTCATGGAGC	0	52.11	Score 13;
Db	827 AGACTTCCCTGAAACCAAGGAAATAGTTCAGPATCTGAAAGGTTTAAGGTAA	0	52.11	Length 1807;
Qy	747 AAATATGTTGAGCTGGTAAACCTGAGATAATGGAAAGATTCACTTACATCA	0	52.11	Best Local Similarity 52.11;
Db	887 AAATATCACCCTGGGTCTGCCCCAGCTCATGCAATTGAGCTAAATATGTCCTA	0	52.11	Score 13;
Qy	807 TGAACCTGAGCGGCTTATGATAATGAACTTACCATTAAGGAAACATCTCCAA	0	52.11	Length 1807;
Db	947 CCAAGGACCTGGGCA-----AAGAGTTCTATGATAGAAACAGGGTGTGA	0	52.11	Best Local Similarity 52.11;
Qy	867 GGAGACCCCCATACATTGAGATAATGGTGGACTGTCTATTTGTTTAAGTGTCA	0	52.11	Score 13;
Db	1001 ACCGGCTCCCCCTATTAATCTCACATTACTTGGCTCTATGGCTCTATCAAG	0	52.11	Length 1807;
Qy	927 AGCATTGTTAAATATATTTCACAAACCTCCATGTTGAGACTTTCCTGCTTA	0	52.11	Best Local Similarity 52.11;
Db	1061 AGAGTTGGCAACTTGTGTGCAACCGGGCTGTGATTGTTGCTGTCAGTGTCCA	0	52.11	Score 13;
Qy	987 AGACACATACCTCTGAGGACTTTCGGCTACCTGATATGGGTTCCAGAAATAC	0	52.11	Length 1807;
Db	1121 GGACACTTCACTTGTCTGAGCATTTCTGGGTCACACTAAATGAGTGTCC	0	52.11	Best Local Similarity 52.11;
Qy	1047 TGGGGAGATTCCACATGCCAGGATCTGCTGATCTGAGCTCGCCCTGT	0	52.11	Score 13;

RESULT ³
 US - 08 - 486 - 196 - 13
 Sequence 13, Application US/08486196
 Patent No. 5731420

GENERAL INFORMATION:
 APPLICANT: Fukuda, Minoru
 APPLICANT: Bierhuisen, Marti F. A.
 TITLE OF INVENTION: Expression of the Developmental I
 Title of Invention: Antigen By a Cloned Human cDNA Encoding a Member of a
 Title of Invention: Bera-1, 6-N-Acetylglucosaminyltransferase Gene Family
 NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Campbell and Flores
 STREET: 4370 La Jolla Village Drive, Suite 700
 CITY: San Diego
 STATE: California
 COUNTRY: USA
 ZIP: 92122

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/486,196
 FILING DATE: CLASSIFICATION: 424
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/118,906
 FILING DATE: 09-SEP-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Kathryn A.
 REGISTRATION NUMBER: 31,815
 PRIORITY/DOCKET NUMBER: P-LJ 9526
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 535-9001
 TELEFAX: (619) 535-8949
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1807 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 255..1454

US - 08 - 486 - 196 - 13

Query Match 13 6%; Score 185.2; DB 1; Length 1807;
 Best Local Similarity 52.1%; Pred. No. 6.1e-41;
 Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;

327 TTGTGACATTTATCAGACTCTAGAGGTATGGCTCAAAAGCTGTCTCAAGGAGGAGAA 386

Db 1181 TGGCTCTATGCCAAATGGATCCCTGGACTG-----GAAACCTCAAGGCTAT 1225
 1107 CAACTGGATTACTATGAGGCTTTCTATCCAGTTGACTGATCTAACCTTCGAAG 11.6
 1226 AAATGGACTGACATGGAGACAGACGGGCC-----TGCCACGGCCACTATGACATCG 128.2
 Db 1167 CGTGTGATTAGGTGAGTAAAGGTTCTATCAAGATGGACATTGGTTGC 122.6
 1283 TATGTGACTATCTGAAACGGAACTTAAGGCTGGTTAATTCAACAGCCGTTGC 134.2
 Db 1227 TAATAATTGATCTAAGTGGACCCATCTCTGATTAATTCGAGAAAACCTTA 128.6
 1343 TAACAGTTGAGCTTAATCCPACCCCTTACTGTGAACTGAACTGAGCTCG 14.02
 Qy 1287 AGAA 1290
 Db 1403 CGAA 1406

Db 467 TTGCAAGGAATACCTGACCCAGGCCACTACATCACGCCCTTATCAAGAAGAGC 526
 387 AGCTTCCATTAGCTATTCTTGGTTCTCAAAAGTGAATTATGGTAAAGCT 446
 527 TGACATTCTCCCTGGATATAATGGTCAATCATCACTTGTACCTTGCAAGCT 586
 447 TATCCATGCTATAACAGCAAAATTAATCGATCCTATTATGATGTAAGGCAC 506
 587 CTTCAGGGCTTTTCTCTGCCCCAAATCTACTGTGTTCTGAGTAAAGGAC 646
 507 TGTATACCTCAAGTGGCTATGAAATTAGCTAAGTGTGCTCTCCAAATATTCATGTC 566
 647 AACTGATTAAAGTGGTAACTTAAGTGTGCTCCAAAGCTTTCTGC 706
 567 TTCCAAATTAGAGGCTGAGCTCCAGACTTCCAGCTGAAATTGTTAAATTG 626
 707 TTCCAGATGGAAACCGGTTCTATGGAGGATTCAGGCTGACTGTGAACTG 766
 Qy 627 TTGTTGGGACCTTCGAAAGTCTCAATCCAGTGGAAAATGGTTAATCTGTTGGCA 686
 Db 767 CATCAGAGATCTTCTGCTGAGCTCTGAGTTCAACCTGTGGCA 826
 Qy 687 AGATTTCCTGAACTCAATTGAAATTGCTGAGTGAAGAAACTCATGGAGC 746
 Db 827 AGACTTCCCTGAAACCAACGAAATACTGATCAGATTCAGAACTTAAAGCTAA 886
 Qy 747 AAATATGTTGGAGACGGTGAACCCAAACAGTAATAATTGAAAGATTCACCATCA 806
 Db 887 AAATAACCCAGGGTGTCCCCAGTCATGCAATGGAGGACTAAATGTCGA 946
 Qy 807 TGAACITGAGCTGGCCCTTATGAAATATGTAATGGTAAGCTTACCAATAGGAAACACATCTCAA 866
 Db 947 CCAGAGGACCTGGCA-----ANGAGCTTCCATGTGATAGAAACAGCTGAA 1000
 Qy 867 GGAAAGCCCCATAACATTGAGATAATTGTTAACTGCTTATTTGTTAACTCA 926
 Db 1001 ACCGCCTCCCTCCATAATCTCACATTACTTCAGCTTATGCTTATGAG 1060
 Qy 927 AGGATTGTTAAATATTTCAAACTCCATGTTCAAGAATTGTTGCTGGCTTATGAG 986
 Db 1061 AGAGTTGCCAACTTGTGCTGATGACCCAGCCTGTTGCTAGGGTCAA 1120
 Qy 987 AGACACATACTCTCCNGATGAGCAGTTGGTPACCTTGATTCGGGTCCAGGAATAACC 1046
 Db 1121 GGACACTTTCAGCTCTGATGCACTTCACTGAGCTTCACTGGTCC 1180
 Qy 1047 TGGGAGATTCCAGTCAGGCCAGATGTCGATCTGAGATAGACTGCCPTGT 1106
 Db 1181 TGGCTCTATGCCAAATGCTGACTGAGCT 1225
 Qy 1107 CAAGTGGAAATTACTATGAAAGCTTTCTATCCAGTTCTACCTTCGAG 1166
 Db 1226 AATGAGTGGACTGATGAGACAGAGACAGGGC-----TGCCAGCT 128.2
 Qy 1167 CGTGTGATTATGAGCTGAGATTAAGCTGCTTATCAAGATGGACATGGTGTGC 1226
 Db 1343 TATGTGATCTGAAACGGAGCTTAAGTGGCTTATCACCAGCTGTTGC 1342
 Qy 1287 AGAA 1290
 Db 1403 CGAA 1406

RESULT ⁴
 US - 08 - 486 - 135 - 13
 Sequence 13, Application US/08486135
 ; Patent No. 5766910
 ; GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru
 Bierhuizen, Marti P.A.
 TITLE OF INVENTION: Expression of the Developmental I Antigen By a Cloned Human cDNA Encoding a Member of a Bera-1,6-N-Acetylglucosaminyltransferase Gene Family

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:
 STREET: Campbell and Flores
 CITY: 4310 La Jolla Village Drive, Suite 700
 STATE: San Diego
 COUNTRY: USA
 ZIP: 92122

COMPUTER READABLE FORM:
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/486,135
 CLASSIFICATION: 424

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/118,906
 FILING DATE: 09-SEP-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Kathryn A.
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9526
 TELEPHONE: (619) 535-1001
 TELEFAX: (619) 535-8949
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1807 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 255..1454

US-08-486-135-13

Query Match Score 13.6%; Score 185.2; DB 1; Length 1807;
 Best Local Similarity 52.1%; Pred. No. 6.4e-41; O; Mismatches 438; Indels 24; Gaps 3;
 Matches 502; Conservative 0; Gaps 3;

Qy 327 TGTGACATTTCAGACTCTAAGGGTTATGCCAAAGCTTGTCTCAAAGGGGAA 386
 Db 467 TCCAAAGAACTCTGACCCGAGGCACTCATCACGCCCTTATTAAAGGAAGAGC 526

Qy 387 AAGCTTCCAAATAGCCCTATTCCTTGGTGGCAATATATGGCAATTATGGTGAAGGCT 446
 Db 527 TGCATTCCTTGGCATATATGGTCACTTCATCAACCTTCAAAGCT 586

Qy 447 TATCCATGCTATAACACCGCACATATTACTGCATCCATATGTCGTAAGGCC 506
 Db 587 CTTCAGGGCTATTATGGCCAAATAATCACTGGTGTCAATGGTGAAGGAC 646

Qy 507 TGTACCTTCAGGTCAGCTTCAATTCAGTGTGGAAATATGGTCAATTTCACTGG 566
 Db 647 AACTGAAATTAAAGATGGGAGGAACTATTAAGCTGTTCAGGTTCCAAAGCTTTCGGC 706

Qy 567 TTCCAAATTAGGGCTGTGGAAATATGCCCAATTCAGACTCCAGGTGATTAAATG 626
 Db 707 TTCCAAAGTGGAACCTCTGAAAGTCCTCAATCCAGGATCTCAGGCTCAAGCTGACTG 766

Qy 627 CTGTGCGAACCTCTGAAAGTCCTCAATCCAGGATCTCAGGCTCAAGCTGACTG 686
 Db 767 CATAGAATCTCCTGAGGTCTAGGTCAACCTGGGCA 826

Qy 687 AGATTTCCCTGAACTCAAAATTGAAATTGGTCAGAGTTGAAACTCAATGGAGC 746

RESULT 5
 US-08-474-065-13
 Sequence 13, Application US/08474065
 Patent No. 583065
 GENERAL INFORMATION:
 APPLICANT: Fukuda, Minoru
 APPLICANT: Bierhuizen, Marti P.A.
 TITLE OF INVENTION: Expression of the Developmental I Antigen By a Cloned Human cDNA Encoding a Member of a Bera-1,6-N-Acetylglucosaminyltransferase Gene Family
 NUMBER OF SEQUENCES: 14
 TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Campbell and Flores
 STREET: 4370 La Jolla Village Drive, Suite 700
 CITY: San Diego
 STATE: California
 COUNTRY: USA
 ZIP: 92122
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/474,065
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/118,906

FILING DATE: 09-SEP-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Kathryn A.
 REGISTRATION NUMBER: 31,815
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 535-9001
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1807 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 255 .. 1454
 US - 08-474-065-13

Query Match Best Local Similarity 52.1%; Score 185.2; DB 2; Length 1807;
 Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;

Qy 327 TTGTGCAATTATTCAGACTCTAAGGGTATGCTCAAAGCTGTCTAAAGGAGGAA 386
 Db 467 TTGCAAGAAATACATGACCCAGGCACTACATACAGCCCTTACATGGAAAGC 526

Qy 387 AAGCTTCCCAATAGCTTATCTCTGGTTGCCAACAGTCGAAATTATGGTGAAGGCT 446
 Db 527 TGAATTCCTTGGATATAATATGTCATCTCCATCATGACCTTGCAGCT 586

Qy 447 TATCCATGCTATATCACACGACAAATTATTCATGCAATTATGCTAAGGCC 506
 Db 587 CTTCAGGCTTAAAGTGGCATGAAATTGCTTCCATATTTCAATTGC 646
 Qy 507 TGAATCCCTTAAAGTGGCATGAAATTGCTTCCATATTTCAATTGC 566
 Db 647 AACATGAAATTAAAGTGGCTAGCAACTATTAAGCTTCCAAAGCTTTCGGC 706

Qy 567 TTCCAAATTAGGGCTGGATATGCCAACATTCAGCTTCAATTGTTAAATTG 626
 Db 707 TTCAGATGAAACCGGTCTATGGGGATCTCCAGGTCAAGGTGACTG 766

Qy 627 CTGTGCGGACCTTCTGAAGCTTCAATCCTGGAAATTGTTACATTGTTGGCA 686
 Db 767 CTACAGGATCTTCCGCTTCAATTGGTCAATTGTTACCTGTGGCA 826

Qy 687 AGATTTCCCTGAAAGTCAAATTGTAATGGTGTCAAGTTGGAAAAACTCATGGAGC 746
 Db 827 AGACTTCCCTGAAACCAAGGAAATAGTCATGTTCAAGGATTTAAAGTAA 886

Qy 747 AATATGTTGGACGCTGAAACCCCAACAGTAATTGGAGATCTTACCTGTCA 806
 Db 887 AATATCACCCAGGGTGCNCCTCCAGTCATCAATTGGAGCTAAATATGTC 946

Qy 807 TGAACCTAGACCGGTGCTTAAGTATGTAAGTCAATTGCTTACATTCAG 856
 Db 947 CTAAGGAGCCGGCA-----AGAGCTTCCATGATGAAAGTAAACAGGTGAA 1000

Qy 927 AGCATTTGTTAAATATTTGACACTCATCGATATTGTCAGCTTAAAGCTT 986
 Db 1061 AGAGTTCCAACCTTGGTCAGACCTGGGTGTTGCTCAGGGTCCAA 1120

Qy 987 AGACACACTCTCTGATGAGCACTTGGCTACCTGATTCGGTCAAGAAATCC 1046
 Db 1121 GAACATTCATGCTCTGATGAGCACTTGGCTTACATGATTCGGTCC 1180

Qy 1047 TGGGAGATTTCCAGATAGCCCGATGTTGACTGCTGAGTAAGACTCGCCTGT 1106

RESULT 6
 US-07-955-041-3
 Sequence 3, Application US/07955041
 Patent No. 5360733

GENERAL INFORMATION:
 APPLICANT: FUKUDA, MINORU
 APPLICANT: BIERHUIZEN, MARTI FA
 TITLE OF INVENTION: A NOVEL BETA-1-6 N-ACETYLGLUCOSAMINULTRANSEFASE, ITS ACCEPTOR MOLECULE, LEUKOSTAININ AND A METHOD FOR CLONING PROTEINS HAVING ENZYMATIC ACTIVITY

TITLE OF INVENTION: N-ACETYLGLUCOSAMINULTRANSEFASE, ITS ACCEPTOR MOLECULE, LEUKOSTAININ AND A METHOD FOR CLONING PROTEINS HAVING ENZYMATIC ACTIVITY

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:
 ADDRESSEE: CAMPBELL AND FLORES
 STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
 CITY: SAN DIEGO
 STATE: CALIFORNIA
 ZIP: 92122

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/955, 041
 FILING DATE: 1992/01/01
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
 NAME: CAMPBELL, CATHRYN
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9294
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-535-9001
 TELEFAX: 619-535-8949

INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 TYPE: NUCLIC ACID
 STRANDEDNESS: both
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA

FEATURE:
 NAME/KEY: CDS
 LOCATION: 220..1504
 NAME/KEY: polyA signal
 LOCATION: 1913..1918

NAME/KEY: misc signal
 LOCATION: 248..314
 OTHER INFORMATION:
 OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"

US-07-955-041-3

Query Match Score 12.6%; DB 1; Length 2105;
 Best Local Similarity 51.7%; Prid. No. 2.6e-37;
 Matches 515; Conservative 0; Nismatches 445; Indels 36; Gaps 4;

Qy 300 TGAATGATGTTGGGATGACAGTGTGACATTATCAACTCTAAGGTTATGC 359
 Db 489 TGAAGCTATATAAACATGACAGTGTGTTCTCATAGAGACGGAAATAT 548

Qy 360 TCAAAAGCTTGCTCAAGGGAGAAAAGCTCCAAATAGCTTATCTGGTGTCCA 419
 Db 549 TGTGAAACCCCTAGTAAAGAGGGGAGTTCATAGCATATCTATGGTGTCA 608

Qy 420 CAAAGATGCAATTATTCGTTGAAAGGTTATCCATGCTATACACAGCACATTTA 479
 Db 609 TACAAATGGATGCTGAGGGTGTGAGGCTGTCATGCTCAAGATTCTA 668

Qy 480 CTGCACTCATATGATGCTGTAAGGCCACTGATACCTTCAGTCCATGAAACATTAGC 539
 Db 669 TGGTGTGATGACACAAATCCAGGTTATTAGCTGATGGCATCTGC 728

Qy 540 TAAGTGTCTTCACAAATTTCATGCTTCAAAATTAGGGCTGTGGAAATATCCGACAT 599
 Db 729 TCTCTGTTTATGAAATCTCTTGTGCTCCAGCGTGGAGGTGGTTATCATGTG 788

Qy 600 TTCAGACTCCGGCATTAAATGCTGTCGACCTCTCTGAAGTCTTCATCCAGTG 659
 Db 789 GAGCGGGTTTCGGCTGGCTGGCTGGCAACTCTGATGAACTGTCRAACTG 848

Qy 660 GAATATGTTATCAACTTGTTGAAAGATTTCCTGTAAGTCGAATTGGATGTG 719
 Db 849 GAAGTACTGTAAATTTGGCTATGGATTTCCTAAACCACTGAAATGT 908

Qy 720 GTAGAGTTGAAAAAACCTCAATGGGAAATATGGTGGAGACGTTGAAACCCGAAAG 779
 Db 909 CAGAAGTCTGTTGTTGTTATGGGAAAAACCTGGAAACGGAGGATGGCATCCCA 968

Qy 780 TAAATTGGAAACATTCACTTACCATGAACTTAACTGAACTTATGAAATATGTGAA 839
 Db 969 TAAAGAAAGGGAGAAGGGTATGAG - - - - - GTGTTTAATGGAAAGTGCAC 1019

Qy 840 GCTTACCAATAAGGAAACATCTCCAGGAAGCACCCCTACATTCAGATAATTGT 899
 Db 1020 - - - - - AACACAGGGACTGTCAAATCTCCACTGAAACCTCTCTTTC 1070

Qy 900 TGGCGNISCTTATTTTAACTGAGATTGTTAAATTTGAAACACTCTAT 959
 Db 1071 TGGCAAGTCCTTCTGTTGTTAGCTGGACTATGGGGTATGACTACAGATGAAA 1130

Qy 960 CGTCAAGACTTTTGGCTGTCTAAGACACATACCTCTGATGAGCATTGGGC 1019
 Db 1131 ATCCAAAGATGTTGAGCTGGCAAGACATACGECCTGATGACTATCTGGCC 1190

Qy 1020 TACCTTGTATTGCGGTTCAAGGATACTGGGAGAT - - - TTCAAGATGCCCAGGATCT 1076
 Db 1191 CACCATCRAAGGATTCTGAGTCGGGCTCACTCCCTGGCTACATGAGATCT 1250

Qy 1077 GTCTGATCTGCAAGGTAAGACTGCCCCTGTAAGTGGAAATTCTATGAGGTTT - - 1133
 Db 1251 ATCTGACATGCAAGCAGTGCAGGTTGCAAGTGGCTGAGTGGCTGTTTC 1310

Qy 1134 - - - - - CTATCCAGTTGTTGACTGGATGTTGTTGTTGTTATTTATG 1181
 Db 1311 CAAGGTGGTCTCAACGGCTCTGGGCTCTGGGCTGAGGCTGATTTTCG 1370

Qy 1182 AGCTGCAAGATAAGGCTGGCTATCAAGATGCAATTGGTTGCTAATAATTGATTC 1241
 Db 1371 AGCTGGTGTGACTGAACTCTGATGTTGCGAAAACCACTGTTGCAATAAGTTGACGT 1430

Qy 1242 TAAAGTGTGCCCCATCTGATTAATGCTGGCAGA 1277
 Db 1431 GGATGTGACCTCTTGCCTACGGCTGGATGA 1466

RESULT 7
 US-08-227-455-3
 Sequence 3, Application US/08227455
 Patent No. 5,624,832
 GENERAL INFORMATION:
 APPLICANT: FUKUDA, MINORU
 APPLICANT: BIERHUTZEN, MARTI FA
 TITLE OF INVENTION: A NOVEL FETA1-6
 TITLE OF INVENTION: N-ACETYLGLUCOSAMINULTRANFERASE, ITS ACCEPTOR MOLECULE,
 TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
 NUMBER OF SEQUENCES: 8
 ADDRESSEE: CAMPBELL AND FLORES
 STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
 CITY: SAN DIEGO
 STATE: CALIFORNIA
 COUNTRY: USA
 ZIP: 92122
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC-compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/227,455
 FILING DATE: 14-APR-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: CAMPBELL, CATHERYN
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9957
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-535-9001
 TELEFAX: 619-535-8949
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2105 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: both
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE: NAME/KEY: CDS
 LOCATION: 220..1504
 FEATURE: NAME/KEY: polyA_Signal
 LOCATION: 1913..1918
 FEATURE: NAME/KEY: misc_Signal
 LOCATION: 248..314
 OTHER INFORMATION: /standard name= "SIGNAL/MEMBRANE-ANCHORING DOMAIN"
 US-08-227-455-3

Query Match Score 12.6%; DB 1; Length 2105;
 Best Local Similarity 51.7%; Prid. No. 2.6e-37;
 Matches 515; Conservative 0; Nismatches 445; Indels 36; Gaps 4;

Qy 300 TGATGATGTTGCGAATGACCGCTGTTGACATTATGACTCTAGAGGTTATGC 359
 Db 489 TGACGACTATAATAACATGACCGATGTTCTCTTCATCAAGAGCCAAATAAT 548

Qy 360 TCAAAGCTGTGCTCAAGGAGGAAAGCTGGCTTCCATAGCTATCTTGGTTGCC 419
 Db 549 TGTGAAACCCCTAGTAAAGGCGGAGTTCCATAGGCTATCTAATGCTTC 608

Qy 420 CAAAGATGCAATTATGGTAAAGCTGGCAATACGGCTATATGAAACGCAAAATTAA 479
 Db 609 TCAAGATGTTGAAATGCTTACGGCTGGGCTATATGCTGAAATTCTCA 668

RESULT 9
 US-10-084-406-3
 Sequence 3, Application US/08487069
 / General INFORMATION:
 / APPLICANT: FUKUDA, MINORU
 / APPLICANT: BIERHUIZEN, MARTI PA
 / TITLE OF INVENTION: A NOVEL BETA-1-6
 / N-ACETYLGLUCOSAMINYL TRANSFERASE, ITS ACCEPTOR MOLECULE,
 / LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
 / ENZYMATIC ACTIVITY
 / NUMBER OF SEQUENCES: 8
 / Correspondence ADDRESS:
 / ADDRESSEE: CAMPBELL AND FLORES
 / STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
 / CITY: SAN DIEGO
 / STATE: CALIFORNIA
 / COUNTRY: USA
 / ZIP: 92122
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: FLOPPY DISK
 / COMPUTER: IBM PC COMPATIBLE
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: Patent Release #1.0, Version #1.25
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/487,069
 / FILING DATE:
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 07/955,041
 / FILING DATE: 01-OCT-1992

Qy 720 GTCAGAGTTGAAATAAACTCAATGGCAAAATAATGGAGAACGGTGAACCCCAACAG 779
 Db 909 CAGGAAGCTCAAGTTGAAACAACTGAAACGGAGGTGATCCCA 968
 Qy 780 TAATTCGAAAGATTCACATCATGAACTTAACTGATGATATGTTGAA 839
 Db 969 TAAGAGAAGGTCGAAAGGCGTTATGAAAGCTGAC 1019
 Qy 840 GTCACCATATGGAAACATCTCCAGGAAACCCCTAACATTCAAGATATTGT 899
 Db 1020 -----AAACACAGGGACTGTCAAATGCTTCACCTGAAACCTCTTC 1070
 Qy 900 TGGAGGCGTTATTGTTTAAGTCAGGAACTGGTAAATAATTTCACAACTCCAT 959
 Db 1071 TGGCACTGGCTTACTGGCTTACTGGCTTACTGGAGTATGGCGGTAACTGAA 1130
 Qy 960 CGTCAAGACTTTGCTGCTTAAGACATACTTCCGATGAGCACTTTGGC 1019
 Db 1131 ATTCACAAAGTGTGAGTGGCAAGACATAACGCCCTGATGGTATCCTGGC 1190
 Qy 1020 TACCTTGATTGGGTCAGGAAATACCTGGGAGAT---TTCCAGATAGGCCAGGGT 1076
 Db 1191 CACCATCAAAGGATTCCTGAGTCCGGCTCACTCCCTGCGCCATAAGTGTCT 1250
 Qy 1077 GTCGTGATCTGCGAGTAAGACTGCGCTTGTCAAGTGGAACTTATGAGGCTTT--- 1133
 Db 1251 ATGGACATGCAAGCAGTGGCTTGTCAAGTGGCTTGTCAAGTGGCTTGTCT 1310
 Qy 1134 -----CTATCCCAGTTGACTGATCTCACCTTCGAAGGCTGTATTATGG 1181
 Db 1311 CAAGGGTCTCCCTAACGGCTCTGGCTCATGGTGTCTGG 1370
 Qy 1182 AGTGTGCAAAATTAAAGGTGCTTATCAAGATGACATGGTTCTATAAATTGATTTC 1241
 Db 1371 AGCTGGTCACTGAACCTGGACTCTGGCAACACCATGTTCCAAATAAGTTGAGGT 1430
 Qy 1242 TAAAGTGSACCCATCTGTATTAATGCTGGTGGCAGA 1277
 Db 1431 GATGTGTSACCCCTTCCATCAGTGGTGTGATGA 1466

Qy 540 TAATGCTTCCATATTTCATGGCTCCAAATTAGGGCTGTGAATAATGCCACAT 599
 Db 729 TTCCCTGTTTGTAGTATGTTCTGCTGGGATGTTATGATCTGTT 788
 Qy 600 TTCCGACTCAGGGCTGTTAAATTGGTTCTGGACCTCTGAACTCTTCATCCAGTG 659
 Db 789 GAGCGGGTTTCAAGCTGCTCAACTGGATGAGGTCAGCTGAACTG 848
 Qy 660 GAAATATGTTATCAGTGTGTTCTGGGAGATTTCCCTGAAAGTCAAATTGTAATTGGT 719
 Db 849 GAAGTACTGATAAATCTTGTCTTGTCTGATGTTCCATTAAACCACTAGAATTTG 908
 Qy 720 GTCAGAGTTGAAATAAACTCAATGGAGAACGGTGAACCCCAACAG 779
 Db 909 CAGBAGGCTCAAGCTGTTATGCGGAAACACCTGAAACGGAGGGTCAATCCCA 968
 Qy 780 TAAATGGAAAGATTCACATGAACTTAACTGAGGTTGATGAACTGAACTG 839
 Db 969 TAAAGTGAAGGTTGCAAGAACTGAACTGAAAGTGAAGTGAAGTGCAC 1019
 Qy 840 GCTACCAATAAGGCAAACTCTTCAGAAGGACCCCATAACTTCGATATTGT 899
 Db 1020 -----AAACACAGGGACTGTCAAATGCTTCCTOCATCGAAACACTCTCTTC 1070
 Qy 900 TGGCACTGGCTTATTGTTAAGTCAGCAATTGTTAAATAATTTCACAAACTCAT 959

Query	Match	Score 11.8%	DB 3	Length 2102;
Best Local Matches 508;	Similarity 51.0%;	Pred. No. 3e-34;	Indels 36;	
Conservative 0;	Mismatches 452;			
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b	300 TGTGAGTGTGCGATGACCATGATGATGACATTATCAGACTTAAGGGG			
b	488 TGGCGACTATATAACATGACCATGACGTGACTTCTTCATGAGAGCGGA			
y	360 TCAAAGCTTGTCTCAAAAGGGGAAAGCTTCCAATAGCTTATTTTGT			
b	548 TGTAGAACCCCTTGTAAAGAGAACGGGAGTTCCAATAGCATATCTATG			
y				
b	420 CAAGATCCAATTATGCTTGAAGGTTTACCATGCTTATACCAACCGACAA			
b	608 TCAACAGATTGAATGTTGACGGGCACTATATGCTTCAATGCTTCAAG			
y				
b	480 CTGATCCATTATGATGTAAGGCACCTGATACTTCAAAAGTGGCCATGAA			
b	668 TTGGGTTCTATGCGACAAATCCAGGATTTCCTTATAGCTCAGTGTGG			
y	540 TAATGCTPCTCCAAATTGTTCTCAAAATTAGGGCTGGATATGCC			
b	728 TTCTGTGTTTAGTAACTGCTTGTGCGGATCTCTAAGGAGTCTCTAAGTC			
y				
b	600 TTCCAGACTCCAGGCTATTTAAATGCTTCTGACCCCTGAAATGCTTCAAT			
b	788 GAGCGGGTTCTGGCTGACTCTAACCTGATGAGAACTCTAAGTGTGCG			
y				
b	660 GAAATATGTTTATAACTTGTGGCGAGATTTCCTCTGAAATGCTAAATTGTA			
b	848 GAATACGTGATAATCTTGTGGATTTTCTTCAATTAAACCAACCTATA			
y				
b	720 GTCGAGTGTGAAAAGTCAATTGAGCAAAATATGTTGGAGACGGTGAACCCCC			
b	908 CAGGAGCTCAAGTTGTTAAATGGGAAAAAACCTGGAAACGGAGAGTGGCC			
y				
b	780 TAATTTGAAAGGTTCACTTACATGACTTACACCTGCTTGTATTGATA			
b	968 TAAGGAACAAAGGTGGAGAGCCCTPATGA-----GGTCTTAACTGAA			
y				
b	840 GCTACCAATAAGACACACATCCAAAGGGACCCCCATACATTGAGT			
b	1017 -----ACAAAGCAGCCGACTTCTCAAAATCTCTCCAAATACCTCT			
y				
b	900 TGGCGATGCTTATTGTTTAAGTCAAGGATTGTTAAATATTTCAACAA			
b	1070 TGGCGATGCTTATTGTTTAAGTCAAGGATTGTTAAATATTTCAACAA			
y				
b	960 CGTCAGACTTTTTGCTGCTTAAAGACACATACCTCTGATGAGCAGT			
b	1130 AATCCAAAAGTTGATGAGTGGCCACAGACAGACAGACAGACAGAC			
y				
b	1020 TACCTTGATTCGGGTTCCGGATAACTCTGGGGAGAT--TTTCGAGATCAGCCCC			
b	1190 CCCCCATCCAAAAGGATTCTGAGCTGGGCTCACTCCCTGGCATAGT			
y				
b	1077 GTCGTATCTGCAAGTGAAGCTGCGCTTATCAAAAGATGGACATTGTTGCTTAATAAT			
b	1250 ATGGACATGCAAGCTGCGCTTGTGCGACTTCTCGGGTGTGAA			
y				
b	1134 -----CCTATCCCGATGTTGACTGGATCTCACCTTGAAGGGTGTATA			
b	1310 CAAGGGTGGACCCATCTCTGATTAATGCTTGGCGA			
y				
b	1182 AGCTCGAGAAATTAGTGGCTCTTATCAAAAGATGGACATTGTTGCTTAATAAT			
b	1370 AGCTGTGACTTGGCTGCGCAACTGTTGCTGAACTTGTGCGATAACTT			
y				
b	1242 TAAGGGTGGACCCATCTCTGATTAATGCTTGGCGA			
b	1430 GCATGTGACCTCTGGCATCTGGCTGCGATGTTGCTGA			
y				
b				

RESULT 11
IS-08-118-906-1
Sequence 1, Application US/08118906
Patent No. 5,845,900
GENERAL INFORMATION:
APPLICANT: Bierhizen, Marti F.A.
TITLE OF INVENTION: Expression of the Developmental I
Antigen By a Cloned Human cDNA Encoding a Member of a
Title of Invention: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/118,906
FILING DATE: 09-SEP-1993
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Kathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 95226
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-8901
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 378 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..378
IS-08-118-906-1
Query Match 8.9%; Score 121.2; DB 1; Length 378;
Best Local Similarity 58.2%; Pred. No. 9.7e-24;
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;
Dy 367 CTTGTCTCAAGGAGGAGAAAGCTTCCCAATAGCCATTCTGGTTGTCCACAAAGAT 426
Db 13 CCTTTTACTCTAGGAAAGGTGATTTCCTGCTGGCATATAATGGTCATCATCAC 72
Dy 427 GCAATATGGTTGAAGGTTATCCTGTTATACACCAAGCAGCATATTACTGCATC 486
Db 73 TTGACACCCCTTGCAGGCTCTTCAAGGGTTATTATACATGCCCAAAATATCTACTGTT 132
Dy 487 CATTATGATCTAAAGCACTGTATCCAAAGTGCATGAACTTACAGTTAGCTAAGTGC 546
Db 133 CATTGTGTGTTGAAACGAACTGAACTGAACTGAACTGAACTGAACTGAACTGAACTG 192
Dy 547 TTCTCCGATATTTCTGTTATGCTTCCGCAAGATTTCCCTGAAGTGAATATGCTCAGAG 606
Db 193 TTCCCAAACGTTTCTGGTTCAAGATGAACTGGTGTATGAGGGATCTCAGGG 252
Dy 607 CTCCGAGCTGATTTAAATTCGTTCTGCAACCTCTGAGTCCTGAGTCATCCGAAATAAT 666
Db 253 CTCCGAGCTGACCTGAACTGAACTGAACTGAACTGAACTGAACTGAACTGAACTGAACTG 312
Dy 667 GTTATCAACTGTTGGCCAGATTTCCCTGAAGTGAATATGCTCAGAGTCATGGTCAAG 726
Db 313 GTTATCAACCTGTTGGCCAGATTTCCCTGAAGTGAATATGCTCAGAGTCATGGTCAAG 372

RESULT 12 US-08-486-196-1

Qy	727 TTGAA	732	; Sequence 1, Application US/08486196				
Db	373 CTGAA	378	; Patent No. 5731420				
GENERAL INFORMATION:						; Application US/08486196-1	
APPLICANT: Fukuda, Minoru		; Bierhuisen, Marti F.A.					
TITLE OF INVENTION: Expression of the Developmental I		; Antigen By a Cloned Human cDNA Encoding a Member of a					
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a		; Beta-1,6-N-Acetylglucosaminyltransferase Gene Family					
NUMBER OF SEQUENCES: 14		; Correspondence Address:					
CORRESPONDENCE ADDRESS:		; Campbell and Flores					
ADDRESS: Campbell and Flores		; Street: 4370 La Jolla Village Drive, Suite 700					
CITY: San Diego		; City: San Diego					
STATE: California		; State: California					
COUNTRY: USA		; Country: USA					
ZIP: 92122		; Zip: 92122					
COMPUTER READABLE FORM:							
MEDIUM TYPE: Floppy disk							
COMPUTER: IBM PC compatible							
OPERATING SYSTEM: PC DOS/MS-DOS							
SOFTWARE: Patentin Release #1.0, Version #1.25							
CURRENT APPLICATION DATA:							
APPLICATION NUMBER: US/08/486-196							
FILING DATE:							
CLASSIFICATION: 424							
PRIOR APPLICATION DATA:							
APPLICATION NUMBER: US/08/118,906							
FILING DATE: 09-SEP-1993							
ATTORNEY/AGENT INFORMATION:							
NAME: Campbell, Kathryn A.							
REGISTRATION NUMBER: 31,815							
REFERENCE/DOCKET NUMBER: P-LJ 95226							
TELECOMMUNICATION INFORMATION:							
TELEPHONE: (619) 535-9001							
TELEFAX: (619) 535-8849							
INFORMATION FOR SEQ ID NO: 1:							
SEQUENCE CHARACTERISTICS:							
LENGTH: 378 base pairs							
TYPE: nucleic acid							
STRANDEDNESS: double							
TOPOLOGY: linear							
MOLECULE TYPE: cDNA							
FEATURE:							
NAME/KEY: CDS							
LOCATION: 1..378							
US-08-486-196-1							
Query Match 8.9%; Score 121.2; DB 1; Length 378;							
Best Local Similarity 58.2%; Pred. No. 9.7e-24;							
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;							
Qy	367 CTTGTTCAAGGAGGAGAAAAGCTTCCCAATAGCCATTCTTGGTTGTCACAAAGAT	426					
Db	13 CCTTTATCTTGGAGAGGTGACTTCCCTTGATTTAAGGCTCATTCATTC	72					
Qy	427 GCAATTATGTTGAAAGCTTATCCATGTATAACCAAGGCAATTATGCTTC	486					
Db	73 TTTGACACCTTGGAGGTCTTGGGTATTACATGCCCAAAATCTACTGTGT	132					
Qy	487 CATTATGATCGTAAGGACCTGATCCTTCAAAGCTGCAATTAGCTGTC	546					
Db	133 CATTGTTGATCAAAGCAAATCTGAATTAGCTTAAAGCTTAAAGCTTC	192					
Qy	547 TTCTCCAAATTTCATTTGTTCCAAATTAGGGCTGTTGAAATTCACATTC	606					

RESULT 13
 US-08-488-135-1
 Sequence 1, Application US/08488135
 ; Patent No. 5766510
 ; GENERAL INFORMATION:
 ; APPLICANT: Fukuda, Minoru
 ; TITLE OF INVENTION: Expression of the Developmental I
 ; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
 ; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
 ; NUMBER OF SEQUENCES: 14
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Campbell and Flores
 ; STREET: 4170 La Jolla Village Drive, Suite 700
 ; CITY: San Diego
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 92122
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/488,135
 ; FILING DATE:
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/118,906
 ; FILING DATE: 09-SEP-1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Campbell, Carolyn A.
 ; REGISTRATION NUMBER: 31,815
 ; REFERENCE/DOCKET NUMBER: P-LJ 9526
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (619) 535-9001
 ; TELEFAX: (619) 535-9949
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 378 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..378
 ; US-08-488-135-1
 ; Query Match Score 121.2; DB 1; Length 378;
 ; Best Local Similarity 8.9%; Precl. No. 9..7e-24;
 ; Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0
 ; Gaps 0
 ; 367 CTTGCTCAAGGAGGAGAAACCTCCAAATAGCCATTCTTGGTGTCCACAGAT 426
 ; 13 CCTTATTAAGGAGAACCTGATTTCCTGATATATGGCATCATCATC 72
 ; 427 GCAATTATGGTGAAGGCTTATCATGATACACAGCAACATATTTACTGCATC 486

73 TTGACACCTTGTAGGCACTGACCTGTTAGGCTTCAAGTTGCCATGACRATTAGTAACTGTT 132

487 CATTATGATCGTAAGGCACTGATACCTTCAAGTTGCCATGACRATTAGTAACTGTT 546

133 CAGTGATGAAACAGACACTGAACTTAAATGCGTAAAGGCACTTATGGTGC 192

547 TTCTCCAAATTTCTATTCAGGCTTCAAAATTAGGCGCTGTGAAATAATGCCACATTCCAGA 606

193 TTCCAAACGCTTTCGGCTCAAGATGAAACCGTGTCTATGGGGATCCTCAGG 252

607 CTTCAGGGTGTGTTAAATTGTTTTCGGGACCTTCTGAAAGTCCTTCAATCAGGAAATAAT 666

253 CTTCAGGGTGTGAACTGACTGTGATCAAGATGAACTGGTCTCATGAACTAC 312

667 GTTATCAACTGTGGCAAGATTTCCCTGAGTCAAATTGAAATTGGTGTGAG 726

313 GATATCAACCTGTGGCAAGACCTTCCCTGAGAAACCAACAGGAAATAGTTCAGT 372

727 TTGAAA 732

373 CTGAAA 378

RESULT 14

US-08-474-065-1

Sequence 1, Application US/08474065

Patent No. 5830465

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

Bierhuizen, Marti F.A.

TITLE OF INVENTION: Expression of the Developmental I

TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a

TITLE OF INVENTION: Beta-1, 6-N-Acetyl Glucosaminyltransferase Gene Family

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell and Flores^S

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

COUNTRY: USA

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/474 065

FILING DATE:

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/118, 906

FILING DATE: 09-SEP-1993

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, cathryn A.

REGISTRATION NUMBER: 31, 815

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-9001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 378 base pairs

TYPE: nucleic acid

STRANDBNESS: double

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 1..378

Query Match 8.9%; Score 121.2; DB 2; Length 378;
 Best Local Similarity 58.2%; Pred. No. 9.7e-24;
 Matches 213; Conservative 0; Mismatches 155; Indels 0; Gaps 0;

Qy 367 CTGGTCTCAAGGAGGAAAGCTTCCCAATAGCCTATTCTGGTTGTCACAAAGAT 426
 Db 13 CCTTATCAAGGAAAG-TGACTTCCTTGGATATATGGTCAATCATCAC 72

Qy 427 GCAATTATGCTTGAAGGCTTATCCATGCTATACACGACATATTACAGCCTAC 486
 Db 73 TTGAACCTTGCAGGCTCTGGGTATTACAGCCCCAAATATCTACGTGTT 132

Qy 487 CATTATGATGCTAAGGACCTGATGATGACATTAAGCTAAGTAAAGTGC 546
 Db 133 CATGTGATGAAAGCAACATCTGAATTAAAGCTGGTAAGGCAACTTAACTGC 192

Qy 547 TTCTCCAAATATTTCATTGTTCCAAATAGAAGCTGTGGAAATAGCCACATTCCAGA 606
 Db 193 TTCCCCAACGTTTCTGGTTCCAAAGATGGAAACCGTGTCTATGGGGATTCAGG 252

Qy 607 CTCCAGGTGATTTAAATGCTGTGGACCTTCTGAAGTCCTAACTCGAATAT 666
 Db 253 CCTCAGGTGCTGAACTGCTGTGGACCTTCTGAAGTCCTAACTCGAATAT 312

Qy 667 GTTATCAACTGTGTGGCAAGATTCCCTGAACTCATCAGAGTCTCTGCTGGAGT 726
 Db 313 GTTATCAACCTGTGGCAAGACTTCCCTGAACACAGGAATAGTCAGTAT 372

Qy 727 TTGAAA 732
 Db 373 CTGAAA 378

RESULT 15

US-08-118-906-3
 Sequence 3, Application US/08118906
 Patent No. 5444590

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru
 ATTORNEY/AGENT INFORMATION:

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell and Flores
 STREET: 4370 La Jolla Village Drive, Suite 700
 CITY: San Diego
 STATE: California
 COUNTRY: USA
 ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/118,906

FILING DATE: 09-SEP-1993

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

PREFERENCE/DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-0001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 378 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

Search completed: February 1, 2004, 00:09:57
 Job time : 98 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 31, 2004, 14:13:05 ; Search time 524 Seconds
(without alignments)
9473.065 Million cell updates/sec

Title: US-10-084-406-1

Perfect score: 1362

Sequence: 1 atgaaatattcaaatgtt.....atctcactaaccatcatgtat 1362

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2434939 seqs, 1822278265 residues

Total number of hits satisfying chosen parameters: 4869878

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Database : Published Applications NA.*

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11: /cgn2_6_ptodata/2/pubpna/us09c_PUBCOMB.Seq:/*
12: /cgn2_6_ptodata/2/pubpna/us09_new_pub.Seq:/*
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16: /cgn2_6_ptodata/2/pubpna/us10_new_pub.Seq:/*
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18: /cgn2_6_ptodata/2/pubpna/us60_PUBCOMB.Seq:/*

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17 175.8 12.9 1314 9 US-09-797-207-19
18 172 12.6 1287 13 US-10-388-307-12
19 172 12.6 1287 15 US-10-084-406-12
20 172 12.6 2110 10 US-09-962-832-123
21 172 12.6 2110 10 US-09-954-456-737
22 161.6 11.9 2109 9 US-09-797-207-13
C 23 147 10.8 549 13 US-10-029-386-453
C 24 138.6 10.2 361 13 US-10-029-386-18153
C 25 117.2 8.6 408 10 US-09-918-995-3027
C 26 108.4 8.0 527 13 US-10-029-386-317
27 80.8 5.9 997 11 US-09-809-307
28 80.8 5.9 997 13 US-09-882-171-307
29 71.2 5.2 2854 12 US-10-108-260A-2321
30 69 5.1 471 10 US-09-998-598-1060
C 31 64.4 4.7 173 13 US-10-029-386-16017
C 32 50.6 3.7 306 10 US-09-978-178-940
33 50.6 3.7 306 10 US-09-878-178-116
34 50.6 3.7 306 14 US-10-046-935-940
35 50.6 3.7 306 14 US-10-046-935-2116
36 50.6 3.7 306 15 US-10-146-502-940
37 50.6 3.7 306 15 US-10-146-502-2116
38 50.6 3.7 306 15 US-10-060-036-1983
39 49.4 3.6 777 11 US-09-809-391-181
40 49.4 3.6 777 13 US-09-882-171-181
C 41 48.8 3.6 404 13 US-09-814-353-18915
C 42 48.2 3.5 285 13 US-09-814-353-21954
43 43 3.2 1944 9 US-09-815-242-9444
44 41.8 3.1 497 13 US-10-027-632-3021
45 41.8 3.1 497 14 US-10-027-632-3021

ALIGNMENTS

RESULT 1
US-10-388-307-1
; Sequence 1, Application US-10388307
; Publication No. US-003180778A1
; GENERAL INFORMATION:
; APPLICANT: Schwieneck, Till
; CLAUSSEN, Henrik
; TITLE OF INVENTION: UDP-N-acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-alpha-R / (GlcNAc
; TITLE OF INVENTION: to GaINAC) beta1,6-N-Acetylglucosaminyltransferase, C2GmT3
; FILE REFERENCE: 4503/IC031
; CURRENT APPLICATION NUMBER: US-10/388,307
; CURRENT FILING DATE: 2003-03-13
; PRIOR APPLICATION NUMBER: US-09/645,192
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/150,488
; PRIOR FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSBQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 13 62
; TYPE: DNA
; ORGANISM: Human
US-10-388-307-1

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1362	100.0	1362	13 US-10-388-307-1	Sequence 1, Appl1
2	1362	100.0	1362	15 US-10-084-406-1	Sequence 1, Appl1
3	1362	100.0	13435	9 US-09-793-998-0	Sequence 10, Appl1
4	949	69.7	1368	9 US-09-793-998-7	Sequence 7, Appl1
5	312.6	23.0	717	9 US-09-793-998-1	Sequence 1, Appl1
6	191.8	14.1	1221	9 US-09-797-207-12	Sequence 12, Appl1
7	191.8	14.1	1317	9 US-09-797-207-1	Sequence 1, Appl1
8	191.8	14.1	1317	13 US-10-388-307-14	Sequence 14, Appl1
9	191.8	14.1	1317	15 US-10-084-406-14	Sequence 14, Appl1
10	191.8	14.1	2108	9 US-09-797-207-3	Sequence 3, Appl1
11	191.8	14.1	2147	10 US-09-981-353-43	Sequence 43, Appl1
12	191.8	14.1	2229	9 US-09-925-297-37	Sequence 337, Appl1
13	191.8	14.1	2319	15 US-10-106-698-1555	Sequence 1555, Appl1
14	191.8	14.1	2319	9 US-09-874-390-1	Sequence 16, Appl1
15	185.2	13.6	1203	13 US-10-388-307-16	

121 AAGACATTACTGGTGTAGCTACTCCCTAATGACCTCGCTTGTAGAAACAGATC 180

541	AAAGTGCTTCTCCAATATTTCATGCTTCCAATATTAGGGCTGTTGGATATGCCACATT	600
541	AAAGTGCTTCTCCAATATTTCATGCTTCCAATATTAGGGCTGTTGGATATGCCACATT	600
601	TCCAGACTCCAGGTGATTTAAATGCTGTCGAACTCTTCGAAAGCTCTTCATCCAGTGG	660
601	TCCAGACTCCAGGTGATTTAAATGCTGTCGAACTCTTCGAAAGCTCTTCATCCAGTGG	660
661	AAATATGTTATCAACTTGTGGCAAGATTTCCTGAACTCAAAATTGAAATGGCTG	720
661	AAATATGTTATCAACTTGTGGCAAGATTTCCTGAACTCAAAATTGAAATGGCTG	720
721	TGAGAGTGGAAAGAAACTCATGGCCAAATATGTTGAGACCGTGAACCCCAAACAGT	780
721	TGAGAGTGGAAAGAAACTCATGGCCAAATATGTTGAGACCGTGAACCCCAAACAGT	780
781	AAATTGGAAAGATTCATTTACCTACCATGAACTTGAAGCTTGAAGCTTATGAAATATGAAAG	840
781	AAATTGGAAAGATTCATTTACCTACCATGAACTTGAAGCTTGAAGCTTATGAAATATGAAAG	840
841	CTTACCAATAAGCAAAACATCTCAGGAGAACCCCCATATACTTCAGATTTGTT	900
841	CTTACCAATAAGCAAAACATCTCAGGAGAACCCCCATATACTTCAGATTTGTT	900
901	GGCAAGTGCCTTAAATTGTTAAGGCAAGGATTCTTAAAGCACATACCTCTCCTGATGGACACTTTCGGGT	960
901	GGCAAGTGCCTTAAATTGTTAAGGCAAGGATTCTTAAAGCACATACCTCTGATGGACACTTTCGGGT	960
961	GTTCAGAACACTTTCGCCCTGCTTAAAGCACATACCTCTGATGGACACTTTCGGGT	1020
961	GTTCAGAACACTTTCGCCCTGCTTAAAGCACATACCTCTGATGGACACTTTCGGGT	1020
1021	ACCTTGATTGCGGTTCCAGGATACTGGGGATTTCCAGATGCCAGGATGTTCT	1080
1021	ACCTTGATTGCGGTTCCAGGATACTGGGGATTTCCAGATGCCAGGATGTTCT	1080
1081	GATCTGCAGAGTAAAGACTGCTGCACTGGATTACTATAAGGCTTTCTATGCC	1140
1081	GATCTGCAGAGTAAAGACTGCTGCACTGGATTACTATAAGGCTTTCTATGCC	1140
1141	AGTGTGACTGGATCTCACCTGAAAGCGCTGTTATTATGGACCTGCCAGAAATTAGCTGG	1200
1141	AGTGTGACTGGATCTCACCTGAAAGCGCTGTTATTATGGACCTGCCAGAAATTAGCTGG	1200
1201	CITATCAAAGATGCAATTGTTGCTTAATAAATTGATTCTAAAGTGGACCCATCTTG	1260
1201	CITATCAAAGATGCAATTGTTGCTTAATAAATTGATTCTAAAGTGGACCCATCTTG	1260
1261	ATTAATGCTTGCAGAAAGCTTAAGACAGAGAGACTGCAACATTTGGCTCTCA	1320
1261	ATTAATGCTTGCAGAAAGCTTAAGACAGAGAGACTGCAACATTTGGCTCTCA	1320
1321	GAAAGTTATTATGGATGAAATCTCACTACCATCATGA	1362
1321	GAAAGTTATTATGGATGAAATCTCACTACCATCATGA	1362

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3435
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-793-998-10

Query Match 100.00%
Best Local Similarity 100.00%
Matches 1362; Conservative
; 1 ATGAGATATTAAAT
Qy 862 ATGAGATATTAAAT
Db 61 TTAACCTATGGCTGC
Db 922 TTAAACCTATGGCTGC
Qy 121 AAAGACATTACTTGGC
Db 982 AAAGACATTACTTGGC
Qy 181 ACTCATGTAAGATGCA
Db 1042 ACTCATGTAAGATGCA
Qy 241 CCTTTGAAATTGGAA
Db 1102 CCTTTGAAATTGGAA
Qy 301 GATGATGTTGGCAA
Db 1162 GATGATGTTGGCAA
Qy 361 CAAAGCTTGTCAAA
Db 1222 CAAAGCTTGTCAAA
Qy 421 AAAGATGCAATTATGG
Db 1282 AAAGATGCAATTATGG
Qy 481 TGCATCATTATGATC
Db 1342 TGCATCATTATGATC
Qy 541 AAGTGTCTCCAAATA
Db 1402 AAGTGTCTCCAAATA
Qy 601 TCCAGACTCAGGGTC
Db 1462 TCCAGACTCAGGTG
Qy 661 AAATATGTTATCACT
Db 1522 AAATATGTTATCACT
Qy 721 TCAAGTCAAAAC
Db 1582 TCAGAGTTAAAC
Qy 781 AAATGGAGAGATCA
Db 1642 AAATGGAAAGATTC
Qy 841 CTACCATAGGACAA
Db 1702 CTACCATAGGACAA
Qy 901 GGCAGTGTATTGTC

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RESULT 5
US09-793-998-1
Sequence 1, Application US /09793998
Patent No. US2002004502A1
GENERAL INFORMATION:
APPLICANT: KORCZAK, BOZENA
APPLICANT: LEW, APRIL
TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYL
TITLE OF INVENTION: GENE
FILE REFERENCE: GLYCO-16
CURRENT APPLICATION NUMBER: US/09/793,998
CURRENT FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: 601185,702
PRIOR FILING DATE: 2000-02-29
NUMBER OF SEQ ID NOS 11
SOFTWARE: PatentIn Ver. 2.1
CODE: IR-NM

Qy 1037 CAGGAATACCTGGGAGATTTCAGATCAGCCACGGATG---TGTCTGATCTGAGATA 1093
 Db 923 GGTGGATGCCGCTGTGCTGCAACCCCAAGTACACATCTGAGATGACTCTCA 982
 Qy 1094 AGACTGSCCTTGCAAGTGGAAATTACTGAGGCTTTCTATCCAGT----- 1143
 Db 983 TGCAGGCTGCTGCTGCTGAGGAGACATGGTCCCTATG 1042
 Qy 1144 ----TGTACTGAGATCTCACCTGAGGCTGTTATTATGGAGCTGCAGATAAGGT 1198
 Db 1043 CTCCCCTGCTGCTGAGATCCAGGGTCACTGGGCTGGAGCTGATT 1102
 Qy 1199 GCTTATCAAGTGGACATGGTTGCTTAATATTGATCTAAGTGGCCTATCT 1258
 Db 1103 GATGCTTCAAAACCACATCACCTGTTGCAACAGTTGAGATAATG 1162
 Qy 1259 TGTATTAATGCTGGAGAAAAGCT 1283
 Db 1163 CTCTCTGCTTAGAGATACT 1187

RESULT 7
 US-09-797-207-1
 Sequence 1, Application US/09797207
 Patent No. US20020098563A1

GENERAL INFORMATION:
 APPLICANT: KORZAK, BOZENA
 TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
 TITLE OF INVENTION: GENE
 FILE REFERENCE: GLYCO-7-PI
 CURRENT APPLICATION NUMBER: US/09/797,207
 CURRENT FILING DATE: 2001-03-02
 EARLIER APPLICATION NUMBER: 09/495,913
 EARLIER FILING DATE: 2000-02-02
 EARLIER FILING DATE: 1999-02-03
 NUMBER OF SEQ ID NOS: 20
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 1
 LENGTH: 1317
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Recombinant
 OTHER INFORMATION: DNA
 US-09-797-207-1

Query Match Score 191.8; DB 9; Length 1317;
 Best Local Similarity 52.5%; Pred. No. 5.6e-44;
 Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

317 TGACCACTGATGTGACATTATGAGCTTAAGGGTTATGCCAAAGGTTGTCCAA 376
 317 TACCAAGACTGGACTTCAAGGCTTAATCTTGGTGAAGAAGTCAACGTTCCAGGCA 376
 377 AGAGGAGAAAGCTCCCATAGCTTATCTTGGTCCACAAAGATGCCATTATGG 436
 377 AGAGAGGGCTGAGTCCATTGATCTCTATGAGATGAAACT 436
 437 TCGAAAGGCTTCACTGCTATGCTAACTTCAAGTGGCTTCAAGTCCAAATG 556
 437 TCGAAAGGCTACTGCGAGCTGTTGATGCCCTCAAGAATATGCTGTTGGATG 496
 497 GTAGGGACCTGATACCTCAAGTGGCTGAACTTGGTAAGTGGCTTCATA 556
 497 AGAGTCCCAGAAACTTCAAGAGGCTCAAGCAATTATTCAGCTCCAAATG 556
 557 TTTTCAATTGCTCAAAATTAGAGCTGTTGAAATATGCCCAATTTCCAGTGGCTG 616
 557 TCTTCATAGCCGTTAGCTGGTTCAGTGGCTTATGCCCTCGTCAGGTC 616

617 ATTTAAATTGCTGGGACCTTCGAAAGTCTCAATGAGAAATATGTTGACT 676
 677 TGTGGGCAATTTCCTCTGAGATGTTGCTCAGGTGAAATGCTGATA 736
 677 CAGTGGAGACTTCTTAAAGGAAATGAGATGTTGCTCAGGTGAAATGCTGAAAC 736
 737 TCAATGGGAAATAATGGAGCTGAAACCCAAACAGTAATGGAAAGATCA 796
 737 TGAATGGGAGGATAGATGGAGCTGAGGTACCTCTAAAGCAGAAACCGCTGGA 796
 797 CCTTACCATGAGACTTGAAGCTGGCCCTATGAAATATGAGTAACTAGGACA 856
 797 AATATCTTGTGGTAGTGGAGACATTAACAC 838
 857 ACATCTCAGGAGGACCCCTAAACATTCAGATAATTGTTGGCAGTGTATTG 916
 839 ACAGAAAGGATCCTCCCTTAATTTAACTATGTTACGGGATGCTGACATG 898
 917 TTAAAGTCAAGCATTGTTAAATATTTCAACACTCATCTTCAGAATTGTTG 976
 899 TGGTTCCCGAGATTGTCACACATGTTGAAGACCTTAATCCACAACTGATG 958

Qy 977 CCTGGCTPAAGAACATACATCTCTGATGGCACTTGGGACTCTTGGGTTGACCTTC 1036
 Db 959 AATGGTAAAGAACATTTACCCGATGAAACCTTCAGCTGCACTTC 1018
 Qy 1093 CAGAAATCTGGGAGATTCAGATTCAGCCAGGATG --TGTCTGATCTGAGATA 1093
 Db 1019 GGTCGATCCGCTCTGTTCCAAACCCCAACTACGACATCTGACTCTCA 1078
 Qy 1094 AGACTGCGCTGCTGCTGAGTGGATTATATGAGGTTTTCTATCCCTA 1143
 Db 1079 TTGCCAGGCTGCTGAGGTCTGAGATGGAGACATGAAAGCTGCTCCTTATG 1138
 Qy 1144 ----TGTACTGGATTCACCTGCTGAGTTATGGAGCTGAGAAATTAGT 1198
 Db 1139 CTCCCTGCTGCAATCACAGGGGCTATCTGGTTATGGGCTGGGACTGTAAT 1198
 Qy 1199 GGCTTATGAGTGGCATTTGGCTATAATTGATCTAAGGGTGGACCTATCT 1258
 Db 1199 GGAGGCTCAAAACCATACCTGCTGAGCAACTTGGCCAACTTGGTATATG 1258
 Qy 1259 TGATTAATGCTGGAGAAAAGCT 1283
 Db 1259 CTCTCTGCTTGTGAGATACT 1283

RESULT 8
 US-0-388-307-14
 Sequence 14, Application US/10388307
 Publication No. US20030180778A1
 GENERAL INFORMATION:
 APPLICANT: Schwientek, Tilo
 APPLICANT: Claußen, Henrik
 TITLE OF INVENTION: UDP-N-Acetylglucosamine:
 Galactose-beta-3-N-Acetylglucosamine:
 Galactose-alpha-1-N-Acetylglucosamine:
 Glucosamine-*l*transf erase, C2GnT3
 EPO REFERENCE: 4503 / 16031
 CURRENT APPLICATION NUMBER: US/10/388-307
 CURRENT FILING DATE: 2003-03-13
 PRIOR APPLICATION NUMBER: US/09/645,192
 PRIOR FILING DATE: 2000-08-24
 PRIOR APPLICATION NUMBER: US 60/150,488
 PRIOR FILING DATE: 1999-08-24
 NUMBER OF SEQ ID NOS: 17
 SOFTWARE: Fast-SEQ for Windows Version 3.0
 SEQ ID NO: 14
 LENGTH: 1317
 TYPE: DNA
 ORGANISM: Human
 US-10-388-307-14
 Query Match 14.1%; Score 191.8; DB 13; Length 1317;

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US-1084-406-14 ; Sequence 14, Application US/10084406
; Publication No. US20030054523A1
; GENERAL INFORMATION:
; APPLICANT: Schwaientz, Til
; CLAUSEN, Henrik
; TITLE OF INVENTION: UDP-N-Acetyl-Gluc
; TITLE OF INVENTION: Galactose-beta
; TITLE OF INVENTION: to GalNac) bet
; FILE REFERENCE: 4503/16G031
; CURRENT FILING DATE: 2002-02-25
; PRIOR APPLICATION NUMBER: US/10/0
; PRIOR FILING DATE: 2000-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSEQ for Windows Version
; SEQ ID NO: 14
; LENGTH: 1317
; TYPE: DNA
; ORGANISM: Human
US-10-084-406-14

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QY	317	TGACCGTGAATTGACATTATCAGACTCTAAGAGTTATGCTCAAAGCTGTCTCAA	376
Ddb	683	TCACAGGAGACTGTGAGACTTCAAGCTGAAAGAGTTCATAGTTCACATGAGGAGCA	742
QY	377	AGGGGAGAAAAGCTTCCCAATTAGCCATTCTGTTGTCACAAAGATGCAATTATCG	436
Ddb	743	AAGAGAGGTGGTTCCTATGCACTCTATGCTGATGATTAAACT	802
QY	437	TGAAAGGCTTACATGCTATATACACCCAGCAAAATTACTGCAACCATATTGATGTC	496
Ddb	803	TGAAAGGGTACTGGAACCTGCTGATCCTCCCTGAAACATATACTGTGTCATGATG	862
QY	497	GTAAGGACCTGATACCTTCAAGTGCCTGCAAGAACATTAGCTTAAGTGTCTCCACATA	556
Ddb	863	AGAAGTCCCAGAACTTCAAGGCGGTCAAGCAATTATTTCCTGTTCCAAATG	922
QY	557	TTCATGCTTCAAATTAGGGCTGGATACTCCACACATTTCACAACTTCCAGCTG	616
Ddb	923	TCTCATGGCACTAAGCTGGTTCTGGTCTGGTCAAGGTGAGCTG	982
QY	617	ATTTAAATTGCTGTGGACCTTCTGAGTTCTAACTCCAGTGGAAATATGTTATCACT	676
Ddb	983	ACCTCAACTGATGGAGACTGCTGAGACTCTGCTGCTGAAATACTTCTGATAA	1042
QY	677	TGCTGGCCAAGATTTCCCTGAAAGTCAAATTTCATTGGTCAAGAGTTGAAAGAAC	736
Ddb	1043	CATGTGGACGGACTTCCTATAAGGCAATGCGAGATGGTCCAGGGTCTCAAGATGT	1102
QY	737	TCAATGGCAAAATAATGTTGGAGACCGTGAACCCCAAACAGTAATTGGAAAGATTC	796
Ddb	1103	TGAAATGGAGGAAATGGATGAGTCAAGGGTACCTCTTAAGCACAAGAAACCGCTGGA	1162
QY	797	CITACCATCATGAACTTAGACCGTGGCTTATGATAATGTTGAAGCTTACCATAGGAGCA	856
Ddb	1163	AATTCATCTTGGAGTAGTGTGAACTACAC-----CTAAACCA	1204
QY	857	ACATCTCCAAGGAGGACCCCCCTAAACATTGAGATAATTGTTGGCAGTGGCTTATTTG	916
Ddb	1205	ACAGAAGAAGGATCTCCCTTAAATTAACTATGTTAACGGATGCTACATGTC	1264
QY	917	TTTAACTCAAGCATTTGTTAAATATTATTCACAAACCTCATGTTCAAGCTTGT	976
Ddb	1265	TGGCTTCCGGAGATTCGTCACATGTTGAAAGACCCATAATCCACAACTGATGTT	1324
QY	977	CTCTGGCTAAAGACACATACTCTCTGATGAGCACTTTGGCTACCTGATGTC	1036
Ddb	1325	AATGGCTAAAGACACTTATAGCCAGATGACCTCTGGGCAACCTTCAGGTGCA	1384
QY	1037	CAGGAATACCTGGAGGATTCGAAATCAGCCACGGATG--TCTCTGATCTCAGAGTA	1093
Ddb	1385	GGTGTGATGGCTGGCTGTTCCAAACACCCCAATGACATCTAGACATCACTCTA	1444
QY	1094	AGACTCGCTTGTCAAGTGGAAATTACTATGAAAGCTTTCTATCCAGT-----	1143
Ddb	1445	TTGCAAGCTGTCAAGTGGCTGATGAGCTGATGTTATGAGCTGCTCCATTG	1504
QY	1144	---TGTAATGGATCTCACCTTCAGGCTGTGATTATGAGCTGAGATTAGGT	1198
Ddb	1505	CTCCCTGTCGTCGATCAGCGGGCTATCTGGTTTATGCGGACTCTGGAATT	1564
QY	1199	GGTATCAAAAGTGGACATTTGGTGTCTATAAATTGATTCTAAGTGGACCCATCT	1258
Ddb	1565	GGATGCTCAAAACATCACCTGTCGGCCAAAGTTGACCCAAAGTTGATATG	1624
QY	1259	TGATTAATGCTGGCGAGAAAGCT	1283
Ddb	1625	CTCTCAGTGGCTAGGAAATCACCT	1649

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Patient No. US200200081659A1
GENERAL INFORMATION:
/ APPLICANT: Roben et al.
/ TITLE OF INVENTION: Nucleic
/ CURRENT APPLICATION NUMBER: PA105
/ FILE REFERENCE: PA105
/ CURRENT FILING DATE: 2000-01-05
/ PRIORITY FILING DATE: 2000-01-05
/ PRIORITY APPLICATION NUMBER:
/ PRIORITY FILING DATE: 1999-01-05
/ PRIORITY APPLICATION NUMBER:
/ NUMBER OF SEQ ID NOS: 928
/ SOFTWARE: PatentIn Ver. 2
/ SEQ ID NO: 337
/ LENGTH: 2229
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE: msc feature
/ NAME/KEY: msc feature
/ LOCATION: (2208)
/ OTHER INFORMATION: n equa
/ NAME/KEY: msc feature
/ LOCATION: (2216)
/ OTHER INFORMATION: n equa
US-19-935-237-337

Query Match 14
Best Local Similarity 52
Matches 517  Conservativeness
Db 317 TCAACGTGATGTTGTC
Db 743 TCAACGTGAGCTGTG
Qy 377 AGGAGGAAAGCTT
Db 803 AGAAAGGCTGGAGT
Qy 437 TTGAAGGCTTATCCG
Db 863 TTGAAGGCTACTGG
Qy 497 GTAAGGCCACCTGATA
Db 923 AGAAGTCCCAGAAA
Qy 557 TTTCATTTGCTTCGA
Db 983 TCTTCTATGCGATTA
Db 617 ATTTAAATGCTGTG
Db 1043 ACCCTCACTCTCATGGGG
Qy 677 TGTGGGGAGAGTT
Db 1103 CATGGGGAGGGCT
Qy 737 TCAATGCGAAATA
Db 1163 TGAATGGCGGATA
Qy 797 CTTACATCATGAGAC
Db 1223 AATATCTATTTGAGG
Qy 857 ACATCTCCAGGAG
Db 1265 ACAAGAGGAGGTC
Qy 917 TTTAAAGTCAGAGCT

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Qy 977 CCTGGCTAAGACACATACTCCTGATGAGCACTTGGCTAACCTGATTCCGGTC 1036
 Qy 13.85 AATGGTAAAGACACTTATGCCAGATGACACCTCTGGCCACCTCTGGTGCAC 1444
 Qy 1037 CAGGAATACCTGGGAGATTCCAGATGAGCAATTGAGCTGAGAGATA 1093
 Db 14.45 GGTGGTGCCTGGCTGTTCCAAACACCCAGATGACATTCGACATGACTTCA 1504
 Qy 1094 AGACTCGCCTGTCGAATGGGAATTACTATGAGGGTTTCTATCCAGT 1143
 Db 1505 TTGCAAGGGTGTGTAAGGGCAAGGGTGTGAGGAGCATGATAGTGGCTCTATG 1564
 Qy 1144 -----TGTACTGATCCTACACTTCGAAAGCGCTGTGATTATGGCTGCAAGATTAGST 1198
 Db 1565 CTCCCTGCTGTAATGCCAACTACCCAGGGTATCTGGGCTGACITGAACT 1624
 Qy 1199 GGCTTATCAAGATGGACATTGGTTCCTATAATTGATCTAGGTGACCCCTATC 1258
 Db 1625 GGATGCTTAAACCATACCTTGGCAAGGTTGACCAAGAGTTGATGATAATG 1684
 Qy 1259 TGATTAATGCTGGAGAAAGCT 1283
 Db 1685 CTCCTCACTGCTTAGAGAATACCT 1709

RESULT 13
 US-10-106-698-1555
 Sequence 1555, Application US/10106698
 Publication No. US20030109690A1
 GENERAL INFORMATION:
 APPLICANT: Ruben et al.
 TITLE OF INVENTION: Colon and Colon Cancer Associated Polymucleotides and Polypeptides
 FILE REFERENCE: PA005P1
 CURRENT APPLICATION NUMBER: US/10/106-698
 CURRENT FILING DATE: 2002-03-27
 PRIOR APPLICATION NUMBER: PCT/US00/26524
 PRIOR FILING DATE: 2000-09-28
 PRIOR APPLICATION NUMBER: US 60/157,137
 PRIOR FILING DATE: 1999-09-29
 PRIOR APPLICATION NUMBER: US 60/163,280
 PRIOR FILING DATE: 1999-11-03
 NUMBER OF SEQ ID NOS: 8554
 SOFTWARE: PatentIn Ver. 3.0
 SEQ ID NO 1555
 LENGTH: 2236
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: miBC Feature
 LOCATION: (2215)..(2215)
 OTHER INFORMATION: n equals a, t, g, or c
 NAME/KEY: miBC Feature
 LOCATION: (2223)..(2223)
 OTHER INFORMATION: n equals a, t, g, or c
 US-10-106-698-1555

Query Match Score 191.8; DB 15; Length 2236;
 Best Local Similarity 52.5%; Pred. No 7.7e-44;
 Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;
 Qy 317 TGACCAAGTATTCTGACATTATCAGACTCTAAGACCTTATGCTCAAAAGCTCTCAA 376
 Db 750 TCACAGAGACTGAGCTTGGACTCTCCATTGCAACTCTATGGTCAACAAAGTCATG 809
 Qy 377 AGGAGGAGAAAAGCTTCCAAATAGCCATTCTGTTGTTGTCACAAAATGCAAAATTG 436
 Db 810 AAGAGAGCTGGACTCTCCATTGCAACTCTATGGTCAACAAAGTCATGAAACT 869
 Qy 437 TTGAAAGGCTTATGCCATCTATAACCAACATAATTACTGATCCATTGTC 496
 Db 870 TTGAAAGGCTTACGGACTCTCCATTGCAACTCTATGGTCAACAAAGTCATG 929

Qy	497	GTTAGGACCTGATACCTTCAAGTGGCCATGAACTTAACTTGGTAACTCCAGTCAAGTCTCCATA	556
Qy	930	AGGAATGCCAGAACTTCAAGGGGCAAACTTCAAGGAGCTCAAACTTCCAAATTCAGGAGCTG	989
D b	557	TTTTCACTGCTCCAAATTAGGGCTGGATAATGCCACATTCCAGTCAGCTCCGGCTG	616
Qy	930	TCTTCAATAGCCAGAACTTCAAGGAGCTCAAACTTCAAGGAGCTCAAACTTCCAAATTCAGGAGCTG	1019
D b	617	ATTTAAATTGGTGTGCGACCTTCAGGCTTCAATCCAGTGGAAATATGTTATACT	676
Qy	1050	ACCTCACTGATGAGACTGCTCCAGGCTAGTGGCTGAACTTCTCTGATA	1109
D b	677	TGTTGGCCAAATTTCCTGAACTCAATTGAACTTGGTAACTTGGTCAAGCTTGGTCAAGAAC	736
D b	1110	CATGTGGACGAACTTCTTAAAGGCAATGCGAGTGGCTCAGGCTCTCAAGATCT	1169
Qy	737	TCAATGGGCAAAATTTGGAAACGGTAACTTAACTGAAATTCAGGATTCAGGTTCAAGTCT	796
D b	1110	TGATGGGAGGATAGAGATGGTCACTTATGAAATATGTAAGAACGAGCTGAA	1229
Qy	797	CTTAACTCATGAACTTAACTTAACTGAACTTCCCTATGAAATATGAACTTAAAGGACAA	856
D b	1210	AATATCACTTGGTGGATGAGACATTAACAGTGGTCAAGGAGACATTAACCA	1271
Qy	857	ACCTCTCAAGGAGACCCACCAAACTTCAAGTAACTTGGTCAAGTATTTGTTTTC	916
D b	1272	ACAAAGAAAGATTCCTCCCTTAACTATGTTACAGGGATGCGTAACTTGG	1331
Qy	917	TTTTAACTCAAGCTTGTAAATTATTTCAAGAACCTCCTGAACTTTGGT	976
D b	1332	TGCGCTTCCGGATTTGTCACAGTGTGTTGAAACCTAAATCCCAACATGGT	1391
Qy	977	CTCTGTTAAAGAACACATACCTCTCCGTAAACAGTGTGTTGAACTTGGT	1036
D b	1392	AATGGTAAAGAACACATTAAGCCAGAAACCTCTGGCCAACTTCAAGT	1451
Qy	1037	CAAGAAATACCTGGGAGATTCCGATCAGCCAGATGTTCTGAACTGAACTA	1093
D b	1452	GGTGTGAGGCTCTGCTCTGTCAGGGTCAAGGGGACATCTGATAAGGGTCTCTA	1511
Qy	1094	AGACTCCCTTCTCAACTGTTCAAGTGGAAATTACTATGAGGTTTCTATCCAGT	1143
D b	1512	TTCGCAAGCTGTCAAGTGGTCAAGGGTCAAGGGGACATCTGATAAGGGTCTCTA	1571
Qy	1144	----TGTACTGGATCTCAGCTTCAAGCTGGCTGTATTATGGAGCTGGCAGAAATTAGT	1198
D b	1572	CTTCCTCTCTGAAATCAGGAACTTCAAGGGCTATCTGGCTTATGGGCTGGAACT	1631
Qy	1199	GGCTTAACTAAAGATGAACTGTTGGTCAATAAATTTCTTCAAGTCTGACCTATCT	1258
D b	1632	CTGGCTCTCAAAACATCTCAGCTGGCTGCAACATTGCCCAGAGTGTAAATG	1691
Qy	1259	TTATTAATGCTTGGCTGAAAGCT	1283
D b	1692	CTCTCTGGCTTAAAGAAATCT	1716

NUMBER OF SEQ ID NOS: 10
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO 1
 LENGTH: 23.9
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (496)..(1809)
 OTHER INFORMATION: cDNA sequence
 US-09-874-390-1

Query Match 14.1%; Score 191.8; DB 9; Length 2319;
 Best Local Similarity 52.5%; Pred. No. 7.9-44;
 Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

Qy 317 TGAACCGTATTGTGACATTATCAGACTTAAGGGTTATGGTCAAAAGCTGTGCTCAA 376
 Db 812 TCAACGAGACTGTGAGCACTTCAAGGTGAAGTCATACGTTCCACTGAGCA 871
 Qy 377 AGGAGGAAAGGAGTCCCAATAGCTTCAATTCTTGTGTTCTCCAAAGATGCAATTATGG 436
 Db 872 AGAAAGGGAGGAGTCCATTGATATTCTATGGATTCTGAAAGATGAAAGTGAAGACT 931
 Qy 437 TGAAGGGCTTATCCATGCTATTACACGCAAAATTACTGATCCATTATGATC 496
 Db 932 TGAAGGGTACTGAGGCTGATGCCCTCTGAACTATAGTGTCCATGTGCGATG 991
 Qy 497 GAAAGCACCCTGATACCTTCAACCGCAAAATTAGGTAAGCTCTCCAAATA 556
 Db 992 AGAAAGCACCCTGATACCTTCAACCGCAAAACTTCAGGGGCTGAACTTCTGCTCCAAATG 1051
 Qy 557 TTTCATGTTCCAAATTAGGGCTGGAATATGCCAACATTTCCAGACTCAGCTG 616
 Db 1052 TCTTCATAGCCGTAAGCTGTTCTGGGCTTGTGCTCCCTCGTCCAGCTG 1111
 Qy 617 ATTAAATTTGTTGGGACCTCTGAAGTCCTCAATCAGTGAAATTGTTGACT 676
 Db 1112 ACTCTAACATGCTGAAAGACTCTCTATAGAGGAATGCGCTCTCAGTGT 1171
 Qy 677 TGTGTCGGCAGATTCCCTGAGTCAATTGTAATTGGTCAAGGTGAAAAC 736
 Db 1172 CATGTGGGACGGACTCTCTATAGAGGAATGCGATGGTCCAGGCTCA 1231
 Qy 737 TCAATGGGAAATAATGTTGAGGACCGTGAACCCCAAAACACTTAATTGGAAAGTTCA 796
 Db 1232 TGAATGGGAAATACTGAGGACCTGAGGTTCTCTTAAGCAAAACCGTGG 1291
 Qy 797 CTTACCATCATGAACTTACGGGTCCTTATGAAATAAGGACCAAA 855
 Db 1292 AATATCTCTTGGAGTGGAGACATTCACCTAACCA 1333
 Qy 857 ACATTCAGGAAAGGACCCCATAAATTGAGATTGTCAGCTTGTGCTTATTG 916
 Db 1334 ACAGAGAAAGGATCTCCCTTAAATTAACTATGTTAGGGATGCTATTG 1393
 Qy 917 TTATGTCAGCATTTGTAATAATTTCACAACTCCATGGTCAGATTTTG 976
 Db 1394 TGGCTTCCGGAAATTTCCTCAGTCAGTTGAGAACCTTGGAGAACCTTAATCCAACTG 1453
 Qy 977 CCTGGCTTAAGACACATACTCTCTGAGGACCTTGGGCTTCACTGCGCAC 1036
 Db 1454 ATGGTAAAGAACACTTATGCCAGTAAACCTCTGGGACACCTTCAGCTGCA 1513
 Qy 1037 CAGGAATACCTGGGAGATTCCAGATCAGGCCGGATG---TGTCTGATCAGAGTA 1093
 Db 1514 GTGGATGCGCTGCTGTCACCCAGTACAGCTCAGATGACTCTCA 1573
 Qy 1094 AGACTGCTCTGTCAGTGGAAATTACTGAGGCTTTTCTPCTCCAGT----- 1143
 Db 1574 TGGCAAGCTGGCTGAGGAGCTGAGGAGACATGCTGAACTGAGTAATGCTAC 1633
 Qy 1144 ----TGTACTGGATCTCACCTCGAAGGGTGTATTATGGAGCTGAGATTAGGT 1198

RESULT 15
 US-0-388-307-16
 Sequence 16; Application US/10388307
 Publication No. US20030180778A1
 GENERAL INFORMATION:
 APPLICANT: Schwieter, Tilo
 Clausen, Henrik
 TITLE OF INVENTION: UDP-N-Acetylglucosamine:Galactosaminyltransferase, C2Gnt3
 TITLE OF INVENTION: UDP-N-Acetylglucosamine:Galactosaminyltransferase, C2Gnt3
 FILE REFERENCE: 4503/16031
 CURRENT APPLICATION NUMBER: US/10/388,307
 CURRENT FILING DATE: 2003-03-13
 PRIOR APPLICATION NUMBER: US/09/645,192
 PRIOR FILING DATE: 2000-08-24
 PRIOR APPLICATION NUMBER: US 60/150,488
 PRIOR FILING DATE: 1999-08-24
 NUMBER OF SEQ ID NOS: 17
 SOFTWARE: FASTSEQ for Windows Version 3.0
 SEQ ID NO 16
 LENGTH: 1203
 TYPE: DNA
 ORGANISM: Human
 US-10-388-307-16

Query Match 13.6%; Score 185.2%; DB 13;
 Best Local Similarity 52.1%; Pred. No. 416-42;
 Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;

Qy 327 TTGTGACATTATCAGACTCTGAAGCTTGTCTAAAGGAGGAGA 396
 Db 213 TTGCAAGAAACTTGACCCAGGACCTACATCACAGGCCCTATCTAAGGAGAGC 272
 Qy 387 AAGCTTCCAAATAGCCATTCTTGTGTCACAAAGTGCACATTATGGTGAAGGCT 416
 Db 273 TGAATCTTCCTGGCATATAATGTTGCTCATCTACTTGCAGGGT 332
 Qy 447 TATCCATGCTATAACACGGCACATAATTACTGCATCATATGTTAGGCACT 506
 Db 333 CTTTGGGCTTATTCATGCCCCAAATAATCTACTGGTCAATGGTAAAGGCAAC 392
 Qy 507 TGTACATCTCAAGTTCAGTAACTTGTGCTCAATATTTCATGTC 566
 Db 393 AACTGAATTAAAGTGGCTGAGGATCTGGCTCCAAAGGCTTTCCTGCG 452
 Qy 567 TTCCAAATTAGGGCTCTGGATAATCCCACATTCAGCTCCAGGGTATTAATTG 626
 Db 453 TCCAGATGGACCCCTTGTCTAGTGGGATCTCAGGCTTCACTGTCAGCTG 512
 Qy 627 CTTGGTCGACCTCTGAGGCTTCATCCAGTGGAAATATGTTCACTTGGCTGGCA 686
 Db 513 CTTAGAGATCTTCTGCTCTGAGTCACTGAGTCACTGAGTCACTGAGCA 572
 Qy 687 AGATTTCCCTGAACTTCATGGGAAATTGAAATCTCAATGGAGC 746
 Db 573 AGACTTCCCTGAAACCACTGAAATAGTTGATCTGAAAGGTTAAAGGTA 632
 Qy 747 AATATGTTGGAGACCTGAGGCTGAACCCCAAACAGTAATGGAAAGTCACTTACCATCA 806
 Db 633 AAATATCACCCTGGGCTGCTGCCCCAGCTCATCAATGGACGGACTAAATGTCGA 692

Qy	807	TGAACTTAGACGGTGCCTATGATAATGTGAACTACCAATAAGGAAACATCTCCAA	866
Db	693	CCAAAGGACCTGGCA-----AGAGCTTTCCTATGTGATAAGAACAGCGTCAA	746
Qy	867	GGAAAGACCCCCATTAACATTAGATAATTGTGGAGGTGCTTATTTGGTTAGTCA	926
Db	747	ACCGCTTCCCCCATTAATTCACAAATTACTTGGCTCTGCTAATGGCTCTATCAAG	806
Qy	927	AGCATTTGTTAAATAATATTTCAACAGCTCCATGTCAAGACTTTTGCTGGTCTAA	986
Db	807	AGAGTTGCCAACTTGTTGATGAACTTGGCTACTCTGATTGTTGCTCAGGGTCAA	866
Qy	987	AGACACATACATCTCCCTGATGAACTTGGCTACTCTGATTGCTGGCTTCGGATAACC	1046
Db	867	GAACACTTTCAGCTCTGATGATGATTCTGGTACACTCAATAAGATTCCAGGTTCC	926
Qy	1047	TGGGGAGATTTCAGATCAGCCACGGATGTGTCTGAGAGTAAGACTCGCTTGT	1106
Db	927	TCGCTCTATGCAAATGCAATTCCTGACTC-----GAAACCTAGACCTAT	971
Qy	1107	CAAGTGAAATTACTATGAAAGCTTTCTPATCCCGAGTGTACTGGAACTCACCTTGAAAG	1156
Db	972	AAAGTGAACTGAACTGAAAGACACGGGGC---TGCCACGGCCACTATGTACATGG	1028
Qy	1167	CGTGTGTTATTTGAGGCTGCAAGATTAGGTGCTTATCAAGATGACATGGTTTGC	1226
Db	1029	TATTTGTTATGAAACCGGAGACTAAAGTGCTGTGTAAATCACAAGCGCTGTTGC	1088
Qy	1227	TATAAATTGATTCTAAGGTGACCCATCTGATTAAATGGTTGCAGAAAGCTTGA	1286
Db	1089	TAACAAAGTTGAGCTTAATCCCTACCCCTTAATCTGTGGAATGGCTAGACTGAGGATCG	1148
Qy	1287	AGAA 1290	
Db	1149	CGAA 1152	

Search completed: February 1, 2004, 00:18:53
 Job time : 528 secs

GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 30, 2004, 12:49:55 ; Search time 21 Seconds

(without alignments)
912,706 Million cell updates/sec

Title: US-10-084-406-2

Perfect score: 2389

Sequence: 1 MKIFKCYFKHTLQQKVYFLP.....DWITLPSEGLFMDNLNTTS 453

Scoring table: BLOSUM62

Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patent_AA.*

1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep: *
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep: *
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep: *
4: /cgn2_6/ptodata/1/iaa/65_COMB.pep: *
5: /cgn2_6/ptodata/1/iaa/97US_COMB.pep: *
6: /cgn2_6/ptodata/1/iaa/backfile1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	868	36.3	438	3	US-09-233-506-2
2	863.5	36.1	428	1	US-09-233-506-2
3	863.5	36.1	428	1	US-08-227-455-4
4	863.5	36.1	428	1	US-08-472-482-4
5	863.5	36.1	428	1	US-08-487-069-4
6	863.5	36.1	428	3	US-09-233-506-3
7	711	29.8	400	1	US-08-118-306-14
8	711	29.8	400	1	US-08-486-196-14
9	711	29.8	400	1	US-08-488-135-14
10	711	29.8	400	2	US-08-474-065-4
11	711	29.8	400	3	US-09-233-506-4
12	383	16.0	126	1	US-08-118-906-4
13	283	16.0	126	1	US-08-486-196-4
14	383	16.0	126	1	US-08-488-135-4
15	383	16.0	126	2	US-08-474-065-4
16	355	14.9	126	1	US-08-118-906-2
17	355	14.9	126	1	US-08-486-196-2
18	355	14.9	126	1	US-08-488-135-2
19	355	14.9	126	2	US-08-474-065-2
20	172	7.2	64	3	US-09-233-506-10
21	126	5.3	33	1	US-08-118-906-6
22	126	5.3	33	1	US-08-486-196-6
23	126	5.3	33	1	US-08-488-135-6
24	126	5.3	33	1	US-08-474-065-6
25	119	5.0	316	1	US-08-597-236-12
26	119	5.0	316	1	US-08-746-682-12
27	113.5	4.8	794	4	US-09-417-485D-8

ALIGNMENTS

RESULT 1						
US-09-233-506-2	Sequence 2, Application US/09233506					
	Patent No. 6136580					
	GENERAL INFORMATION					
	APPLICANT: Yeh, Juiunn-Chern					
	TITLE OF INVENTION: A Beta-1-6-N-Acetyl-glucosaminyltransferase That Forms					
	TITLE OF INVENTION: Core 2, Core 4 and I Branches					
	FILE REFERENCE: P-LJ 415					
	CURRENT APPLICATION NUMBER: US/09/233,506					
	CURRENT FILING DATE: 1299-01-19					
	NUMBER OF SEQ ID NOS: 14					
	SOFTWARE: PatentIn Ver. 2.0					
	SEQ ID NO: 2					
	LENGTH: 438					
	TYPE: PRT					
	ORGANISM: Homo sapiens					
	US-09-233-506-2					

Query Match 36.3% ; Score 868; DB 3; Length 438;						
Best Local Similarity 43.0% ; Pred. No. 1.8e-76;						
Matches 182 ; Conservative 71 ; Mismatches 146 ; Indels 24 ; Gaps 9 ;						
Queries 23 LMILSLKLINV-----RLFLPQDQIVLYEVLSLSTSPPVNR-RYTHYDDEVRYEVNCSG 75						
DBs 13 LWALGCTMLATVALKLSFRKCDSDPHLGESRSQYCRNLYNFLPLAKRSINCSG 72						
76 YY--EPEPL--PIGKSLIEIRRDIIDLEDDDVAVANTSDCDIYQITRGYAQQLYSKEEKS P 131						
77 VTRGDOEAVLQIAILNNELEVKKR--EPTFDTHYLSTRDCEHFAERKFQFPLSKKEVEF 131						
78 PLAYSLLVYKDAIMVERPLIHAQYQHNTYCHYDVKAPDTFQVAMMNLAKCSNIPFLASK 191						
79 192 LEAVEYAHISILOADINCLSDILKSSIONQVYVNLFLYELVCKLNGAM 251						
80 192 LVRVYVASSWYQDADINCMEDILQSSVPWCKPLANTCGLTDEPIKNAEWYQALQMLNGNS 251						
81 192 LETYKPPNKSLEKERTFTYHELLRVPYEXVQLPFLRTNISKEAPPTINTQIYFGSAYFLSOF 311						
82 252 MESVPPKHKETRWTQHFEVVR--DTLHL---INKRCKDPPNLTMFGRNIVASRDF 305						
83 312 VKYIENNSIVQDFEANSKDTSYSPDDEFWATLIRYVGIPGSEI--SRSQAQYPSDLOSKTRLYK 370						
84 306 VQHVLKNPKRSQOLIENYKRTDTSDEHLWATLQRARWMPGSPNPKYD1SDMNTSIARLVR 365						
85 371 WNYTEGGPF----YPSCTGSURSVIYGAELWMLIKDGHMFANKEDSKVDPPLIKL A 425						

Db 366 WQHBRGIDKQGAPYAPCGSIHQRAICIVYAGGDLNWLQNHHLANKFDPKVDNALQCLE 425
 Qy 426 EKL 428
 Db 426 EYL 428

RESULT 2
 US-0-955-041-4
 Sequence 4, Application US/07955041
 Patent No. 5560733
 GENERAL INFORMATION:
 APPLICANT: FUKUDA, MINORU
 ATTORNEY: BIERHUIZEN, MARTI FA

TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE, LEUKOSTALIN AND A METHOD FOR CLONING PROTEINS HAVING ENZYMIC ACTIVITY
 NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:
 ADDRESSE: CAMPBELL AND FLORES
 STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
 STATE: SAN DIEGO
 COUNTRY: USA
 ZIP: 92122

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/955,041
 FILING DATE: 1992/10/01
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: CAMPBELL, CATHRYN
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9294
 TELEPHONE: 619-535-9001
 TELEFAX: 619-535-8949
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 428 amino acids
 TOPology: linear
 MOLECULE TYPE: protein

US-0-955-041-4

Qy 304 YFVLSOAFVYCTIENNSIVODFAWSKDTYSPDEHFWATLIRVPGIPEBISRSAQ-DVSDL 362
 Db 288 YFVVSREIVGVLQNEKIRMLMATAQDTYSPDYLWATIQR FEPVPOSLPASHKVDISDM 347
 Qy 363 QSKTRIYKNNYYGEFF---YPSCTGSHLRSVCIYGAELFLWIKDGHWPAKFKDSKVD 417
 Db 348 QAVAFVQWQFPEGDVSQKAPYPCDGVRVRSVCFGAGDLWMLRKHLFANKFDVVD 407
 Qy 418 PILIKLAAEKEEQ 431
 Db 408 LPAIQCLDEHLRHK 421

RESULT 3
 US-0-227-455-4
 Sequence 4, Application US/08227455
 Patent No. 564832

GENERAL INFORMATION:
 APPLICANT: FUKUDA, MINORU
 ATTORNEY: BIERHUIZEN, MARTI FA
 TITLE OF INVENTION: A NOVEL BETA-6 N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE, LEUKOSTALIN AND A METHOD FOR CLONING PROTEINS HAVING ENZYMIC ACTIVITY
 NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:
 ADDRESSE: CAMPBELL AND FLORES
 STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
 CITY: SAN DIEGO
 STATE: CALIFORNIA
 COUNTRY: USA
 ZIP: 92122

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/227,455
 FILING DATE: 14-APR-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: CAMPBELL, CATHRYN
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9957
 TELEPHONE: 619-535-9001
 TELEFAX: 619-535-8949
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 428 amino acids
 TYPE: amino acid
 TOPology: linear
 MOLECULE TYPE: protein

US-0-227-455-4

Qy 28 LILKLNVRPF-POKDIYLV-EYSLSTSPPFNRTHVDE--VRY-----EV 71
 1 MRLTLLRRRFSSYPTKYLEMVLVSLITFSVIR--THQKEFVSTRLHELAGENPSSDI 57
 Qy 72 NCSGTYEQBPLERK-----SLEIRDDIILEDQDVAINTSDCSDSSPIRKRTIVEPEL 125
 58 NCTKVLQGDYNEIQVKLILTYKFKGP--RWTPTDDYINNTSDCSDSSPIRKRTIVEPEL 115
 126 KEEAFPIAYSVIVVHKEMLDRILRATYMPQFYCHVTDYKSEDSYLAAGMAGSCFEN 175
 116 KEEAFPIAYSVIVVHKEMLDRILRATYMPQFYCHVTDYKSEDSYLAAGMAGSCFEN 175
 Qy 186 IFIASKLEAVYAHISRLQADNLCLSKSTOWKCVINLQGDFPLKNSFELVSELK 245
 Db 176 VFAASRLESVYASWSRVAADLNCMQLYAMSAWKLINQGMDEPKTNLTVRKJL 235
 Qy 246 LINGAMMLEYKPKNSKLERFTYHLLRVPYVV--KLPIRTNIKSEKAPPNIQIFVGS 303
 Db 236 LMGNNLETRMPSSHEERW-----KKRVEVNGL-TNTGTVMLPPLTFLFGSA 287

Query 186 IFASKLLEAVEYAHISILOADINCLSDLKLSS10WKVN1LQDDEPLKSNFELYSELKK 245
 DDB 176 VFAASLRSVYIASSWRYQDADINCMKDLYAMSANWCKLNLCGMDFPKTNLEIVKLKL 235

Query 246 LNGANMLETVKPKNSKLERFTYHLELRVPEYV--KLPIRTNISKEAPPNIOIFVGSA 303
 DDB 236 LIGENNLTTERPMSHKEERW-----KKREBVNGKL-TNGTVAQPLPLETPRSGSA 287

Query 304 YFVLSQAFVKYIENNSIVQDFPAWSKDTYSPDHFWATLIRVPGIPGEISRSAQ-DVSDL 362
 DDB 288 YFVVSRETVGYVQNEKIQKLMEMWAQTYSPDLYATVRIKEPEVGSPLPASHKVDLSDM 347

Query 363 QSKTRLILKQNYEGFF----YPSCTRSHLSSVCTYGAERLWIKDGHFANKEDSKVD 417
 DDB 348 QAYAFTKQYQGQFDSKGAPYPPCDGQVHRSVCFQAGDINWLRKHLFANKEDDVVD 407

Query 418 PIIKCLAEKLEEQ 431
 DDB 408 LFAIQCLDEHLRHK 421

RESULT 4
 US-08-472-482-4 ; Sequence 4, Application US/08472482
 ; Patent No. 5658778

GENERAL INFORMATION:
 ; APPLICANT: FUKUDA, MINORU
 ; BIERHUIZEN, MARTI FA
 ; TITLE OF INVENTION: A NOVEL BETA1-6
 ; TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
 ; TITLE OF INVENTION: LEUKOSTAIN AND A METHOD FOR CLONING PROTEINS HAVING
 ; TITLE OF INVENTION: ENZYMATIC ACTIVITY
 ; NUMBER OF SEQUENCES: 8
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: CAMPBELL AND FLORES
 ; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
 ; CITY: SAN DIEGO
 ; STATE: CALIFORNIA
 ; COUNTRY: USA
 ; ZIP: 92122

COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/472,482
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/955, 041
 ; FILING DATE: 01-OCT-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: CAMPBELL, CATHRYN
 ; REGISTRATION NUMBER: 31,815
 ; REFERENCE/DOCKET NUMBER: P-LJ 9294
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 619-535-9001
 ; TELEFAX: 619-535-8949
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 428 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-472-482-4

Query Match 36.1%; Score 863.5; DB 1; Length 428;
 Best Local Similarity 43.1%; Prod. No. 4.9e-76;
 Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;
 28 LILKLNTRRLF--FQDQIYLV-EYSLSSTSFPVNRYTHVKE--VRY-----EV 71

1 MRLTRLRLRFPSYTKYFPMVLSLITPSVLR --IHKPEFYSVRIHLEAGENPSSDI 57

2 72 NCGSITYEQPEPLEIGK-----SLEIRRDIIDLEDDDVAMTSDDCDIYQTLRGYAQAKLYS 125

3 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|

4 58 NCTKVLQGQDNEIQKVKLRLBILTVFKCRP -RWTDPD2Y1NMTSDCSSEIKRKTYTEPEPLS 115

5 126 KEEKSPFLAISLVLVHDAAMVERLIAHAIQNQHNTYCHYDRKADPFTKAVMNLLAKFCFSN 185

6 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|

7 116 KEEAEPFTAVSVVHKEMLDRILRAITMPQNFYCHVYDTSYLAAMGJASCFCSN 175

8 186 :IFIASKLAEVEYAHISLOADLNLSDLLRSSTQWKKVYLNGCDFPLASNFELVSELRK 245

9 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|

10 176 VFIASRLESVYASWRSWVADLNCMDLYAMSANWKKYLINLCGDFPIITNLIVRKTLKL 235

11 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|

12 246 LNGANMLETYKPPNISKLERFTYHIELLRRVPPYEXY -KLPIRTRNISKEAAPHNIOIYFGSA 303

13 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|

14 236 LMGENNLTERMPSKHEERW-----KRYEYVNGKU -TNTGTIVMULPPLTEPLFGSGA 287

15 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|

16 304 YFVLSQAFYKVIIFNSITQDFFAMSKDTSRSPDHFWATLIRVPGIPGEISRSQAQ-DVSDL 362

17 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|

18 288 YFVYSREYVGYVYQKLMENADQTYSPDFTLWATQRIIPVPGSPLPASHXYDLSDM 347

19 363 QSKTRLKVNNYEGFP-----YPCCTGSHLRSVCIYGAELRNLLJIDGWPAFKFDKVD 417

20 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|

21 348 QAVARFVKWQYFEDSVSKGAPYPPFCDDGIVHVRSCVIFGAGDLNMLRKHLLFANKFDVDVD 407

22 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|

23 418 PILIKLCAERLKEEY 4 331

24 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|

25 408 LFATIQCLDEHLRHK 4 21

26 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|

27

28 RESULT 5

29 US-08-487-069-4

30 Sequence 4, Application US/08487069

31 ; Sequence 4, Application US/08487069

32 ; Patent No. 5684334

33 ; GENERAL INFORMATION:

34 ; APPLICANT: FUKUDA, MINORU

35 ; BIERUTZEN, MARTI FA

36 ; TITLE OF INVENTION: A NOVEL RETAL-6

37 ; TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE

38 ; TITLE OF INVENTION: LEUKOSTYLIN AND A METHOD FOR CLONING PROTEINS HAVING

39 ; TITLE OF INVENTION: ENZYMATIC ACTIVITY

40 ; NUMBER OF SEQUENCES: 8

41 ; CORRESPONDENCE ADDRESS:

42 ; ADDRESSEE: CAMPBELL AND FLORES

43 ; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700

44 ; CITY: SAN DIEGO

45 ; STATE: CALIFORNIA

46 ; COUNTRY: USA

47 ; ZIP: 92122

48 ; COMPUTER READABLE FORM:

49 ; MEDIUM TYPE: Floppy disk

50 ; COMPUTER: IBM PC compatible

51 ; OPERATING SYSTEM: PC-DOS/MS-DOS

52 ; SOFTWARE: Patent Release #1.0, Version #1.25

53 ; CURRENT APPLICATION DATA:

54 ; APPLICATION NUMBER: US/08/487,069

55 ; FILING DATE:

56 ; CLASSIFICATION: 435

57 ; PRIOR APPLICATION DATA:

58 ; APPLICATION NUMBER: US 07/955,041

59 ; FILING DATE: 01-OCT-1992

60 ; ATTORNEY/AGENT INFORMATION:

61 ; NAME: CAMPBELL, CATHRYN

62 ; REGISTRATION NUMBER: 31,815

63 ; REFERENCE/DOCKET NUMBER: P-LJ 9294

64 ; TELECOMMUNICATION INFORMATION:

65 ; TELEPHONE: 619-535-9001

66 ; TELEFAX: 619-535-8949

67 ; INFORMATION FOR SEQ ID NO: 4:

68 ; SEQUENCE CHARACTERISTICS:

69 ; LENGTH: 428 amino acids

70 ; TYPE: amino acid

RESULT 8
US-08-486-196-14
Sequence 14, Application US/08486196
; Patent No. 571420
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; Bierhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; NUMBER OF SEQUENCES: 14
; NUMBER OF SEQUENCES: 14
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,196
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 538-8949
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-486-196-14

RESULT 9
US-08-488-135-14
Sequence 14, Application US/08488135
; Patent No. 576610
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; Bierhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; NUMBER OF SEQUENCES: 14
; NUMBER OF SEQUENCES: 14
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,135
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-488-135-14

Query Match 29.8%; Score 711; DB 1; Length 400;
Best Local Similarity 43.7%; Pred. No. 3.8e-61;
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;
Query Match 29.8%; Score 711; DB 1; Length 400;
Best Local Similarity 43.7%; Pred. No. 3.8e-61;
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

108 SPCDIYQTLRGYAQLVSKERKSFSPIASLUVVHKDAMVERLTHAIYNQHNTYCHDRK 167

RESULT 10
 Qy US-084-406-14 Application US/08474065
 Db Patent No. 5830465
 / GENERAL INFORMATION:
 / APPLICANT: Bierhuzen, Marti F. A.
 / TITLE OF INVENTION: Expression of the Developmental I
 / Antigen By a Cloned Human cdNA Encoding a Member of a
 / Gene Family
 / NUMBER OF SEQUENCES: 14
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Campbell and Flores
 / STREET: 4370 La Jolla Village Drive, Suite 700
 / CITY: San Diego
 / STATE: California
 / COUNTRY: USA
 / ZIP: 92122
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: Patent Release #1.0, Version #1.25
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/474,065
 / FILING DATE:
 / CLASSIFICATION: 424
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 08/118,906
 / FILING DATE: 09-SEP-1993
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Campbell, Kathryn A.
 / REGISTRATION NUMBER: 31,815
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: (619) 535-9949
 / TELEFAX: (619) 535-9901
 / INFORMATION FOR SEQ ID NO: 14:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 400 amino acids
 / TOPOLOGY: linear
 / MOLECULE TYPE: protein
 / US-084-406-14

RESULT 11
 US-09-233-506-4
 / Sequence 4, Application US/09233506
 / Patent No. 6136580
 / GENERAL INFORMATION:
 / APPLICANT: Fukuda, Minoru
 / APPLICANT: Yeh, Jium-Chern
 / TITLE OF INVENTION: A Beta-1,6-N-Acetylglucosaminyltransferase That Forms
 / Glycogen-Substituted Oligosaccharides
 / FILE REFERENCE: P-LJ 3415
 / CURRENT APPLICATION NUMBER: US/09/233,506
 / CURRENT FILING DATE: 1999-01-19
 / NUMBER OF SEQ ID NOS: 14
 / SEQ ID NO 4
 / LENGTH: 400
 / TYPE: PRT
 / ORGANISM: Homo sapiens
 / US-09-233-506-4

Query Match Score 711; DB 3; Length 400;
 Best Local Similarity 43.7%; Pred. No. 3.e-61;
 Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

Qy 108 SDCDIYQTLLGYAQKLVSKEKSPPIAYSLVYHDAIMVERLIAHYNQHNTYCHYDRK 167
 Db 70 SSCKEYLQSHYITAPLSKEEADPPLAYMVIHFFDTFARIFRAIMPQNYCVYDEK 129
 Qy 168 APDTFKVAMNLAKCFSNIFASKLEAVEYAHISRLOADNLCSIDLKSS10WQKTYINLC 227
 Db 130 ATTEFDADQOLLSCFPNAFLASMEPVVYGGISRLQDNLCDRLSAFEVSWKYYINTC 189
 Qy 228 GQDFPLKSNFELVSELKINGAMLETKPKPSKLERTY-THELRRPVYTKLPRTN 286
 Db 190 GQDFPLKTNKREIVYQLGPKGNITPGYLPAAIGRTKTYQHEHLGKELSTV--IRTT 246
 Qy 287 ISKEAPPNQIIFVGSAYFVLSQAFVKIIFANSIVQDFEAWSKTDYSPDEHFWATLIRVP 346
 Db 247 ALKPPPPNNTTIVFSAYVAYLSRPAFVYHDPRAVLLQWQKDTSPDEHFWATLIRVP 306
 Qy 347 GIPGETRSRQDVSPLQSKTRLYKVNYYEGFFFPSCTGSHLRSVCITYGAELRLWLIKDH 406
 Db 307 GVPGSMNPNAS----WTGNLRALKWSDMED-RHGGCHGHTYVGICITYGNGDLKWLVSNSP 360
 Qy 407 WFANKEDSKVDPLLIKCLAEKLBQQR 433
 Db 361 LFANKFELNTPLTVBCL--ELRHRER 385

Query Match Score 711; DB 3; Length 400;
 Best Local Similarity 43.7%; Pred. No. 3.e-61;
 Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

Qy 108 SDCDIYQTLLGYAQKLVSKEKSPPIAYSLVYHDAIMVERLIAHYNQHNTYCHYDRK 167
 Db 70 SSCKEYLQSHYITAPLSKEEADPPLAYMVIHFFDTFARIFRAIMPQNYCVYDEK 129
 Qy 168 APDTFKVAMNLAKCFSNIFASKLEAVEYAHISRLOADNLCSIDLKSS10WQKTYINLC 227
 Db 130 ATTEFDADQOLLSCFPNAFLASMEPVVYGGISRLQDNLCDRLSAFEVSWKYYINTC 189
 Qy 228 GQDFPLKSNFELVSELKINGAMLETKPKPSKLERTY-THELRRPVYTKLPRTN 286
 Db 190 GQDFPLKTNKREIVYQLGPKGNITPGYLPAAIGRTKTYQHEHLGKELSTV--IRTT 246
 Qy 287 ISKEAPPNQIIFVGSAYFVLSQAFVKIIFANSIVQDFEAWSKTDYSPDEHFWATLIRVP 346
 Db 247 ALKPPPPNNTTIVFSAYVAYLSRPAFVYHDPRAVLLQWQKDTSPDEHFWATLIRVP 306
 Qy 347 GIPGETRSRQDVSPLQSKTRLYKVNYYEGFFFPSCTGSHLRSVCITYGAELRLWLIKDH 406
 Db 307 GVPGSMNPNAS----WTGNLRALKWSDMED-RHGGCHGHTYVGICITYGNGDLKWLVSNSP 360
 Qy 407 WFANKEDSKVDPLLIKCLAEKLBQQR 433
 Db 361 LFANKFELNTPLTVBCL--ELRHRER 385

RESULT 12
US-08-118-906-4

Sequence 4, Application US/08118906

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

TITLE OF INVENTION: Expression of the Developmental I Antigen By a Cloned Human cDNA Encoding a Member of a Gene Family

TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell and Flores

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/486,196

FILING DATE: 09-SEP-1993

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/118,906

FILING DATE: 09-SEP-1993

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-5001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 126 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-118-906-4

Query Match Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8-2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

RESULT 13

Sequence 4, Application US/08486196

Patent No. 576910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-5001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 126 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-118-906-4

Query Match Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8-2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

RESULT 14

Sequence 4, Application US/08486196

Patent No. 576910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-5001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 126 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-118-906-4

Query Match Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8-2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

RESULT 15

Sequence 4, Application US/08486196

Patent No. 576910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-5001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 126 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-118-906-4

Query Match Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8-2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

RESULT 16

Sequence 4, Application US/08486196

Patent No. 576910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-5001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 126 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-118-906-4

Query Match Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8-2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

RESULT 17

Sequence 4, Application US/08486196

Patent No. 576910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-5001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 126 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-118-906-4

Query Match Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8-2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

RESULT 18

Sequence 4, Application US/08486196

Patent No. 576910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-5001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 126 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-118-906-4

Query Match Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8-2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

RESULT 19

Sequence 4, Application US/08486196

Patent No. 576910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-5001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 126 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-118-906-4

Query Match Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8-2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

RESULT 20

Sequence 4, Application US/08486196

Patent No. 576910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-5001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 126 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-118-906-4

Query Match Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8-2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

RESULT 21

Sequence 4, Application US/08486196

Patent No. 576910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-5001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 126 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-118-906-4

Query Match Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8-2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

RESULT 22

Sequence 4, Application US/08486196

Patent No. 576910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-5001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/488,135
 FILING DATE: 08/08/2004
 PRIORITY APPLICATION NUMBER: 424
 PRIORITY APPLICATION DATE: 08/11/8,906
 ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Cathryn A.
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9526
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 535-8901
 TELEFAX: (619) 535-8949
 FILING DATE: 09-SEP-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Cathryn A.
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9526
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 535-8901
 TELEFAX: (619) 535-8949
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 126 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-488-135-4

Query March 16.0%; Score 383; DB 1; Length 126;

Best Local Similarity 54.8%; Pred. No. 8.2e-30;
 Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

Qy 119 YAKQVSKKEEKSPIKAYSLVVKDAMIVRSLTHAIYQHNIVCHYDRKAPDTEKVAMNN 178
 Db 1 YVEPPLSKKEEFPPIASVIVVHKEMLDLRATYMPNQFYCHVHDPTKSEDSYLAAMG 60

Qy 179 LAKCFNTIPIASKLRAVEYAHISILOADINCSDILKSSIQWRYVINECGQDFPLKSNF 238
 Db 61 IASCFSNVFVASRLESVYASWSRVQADNCMDLYANSANWKLINICGMDFPIKTNLE 120

Qy 239 LVSELK 244
 Db 121 IVRKLK 126

Qy 239 LVSELK 244
 Db 121 IVRKLK 126

RESULT 15
 US-08-474-065-4
 Sequence 4, Application US/08474065
 Patent No. 5830465

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY: Bierhuizen, Marti F.A.

TITLE OF INVENTION: Expression of the Developmental

TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell and Flores

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC Compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/474,065

FILING DATE:

CLASSIFICATION: 424

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: US 08/118,906

FILING DATE: 09-SEP-1993

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-LJ 9526

Result No.	Score	Query Match Length	DB ID	Description	TYPE: PRT	LENGTH: 453	ORGANISM: Human
1	2389	100.0	453	12 US-10-388-307-2	Sequence 2, Appli	US-0-388-307-2	
2	2389	100.0	453	15 US-10-084-406-2	Sequence 2, Appli	US-10-388-307-17	
3	2389	100.0	453	1104 9 US-09-793-998-11	Sequence 11, Appli	US-10-388-307-17	
4	1988.5	83.1	455	9 US-09-793-998-8	Sequence 8, Appli	US-10-084-406-15	
5	868	36.3	438	9 US-09-874-390-2	Sequence 2, Appli	Sequence 15, Appli	
6	868	36.3	438	9 US-09-797-207-2	Sequence 2, Appli	Sequence 15, Appli	
7	868	36.3	438	10 US-09-981-353-44	Sequence 44, Appli	Sequence 15, Appli	
8	868	36.3	438	12 US-10-388-307-15	Sequence 15, Appli	Sequence 15, Appli	
9	868	36.3	438	15 US-10-084-406-15	Sequence 5832, Appli	Sequence 5832, Appli	
10	868	36.3	465	15 US-10-106-698-5832	Sequence 4, Appli	Sequence 4, Appli	
11	868	36.3	663	9 US-09-797-207-4	Sequence 766, Appli	Sequence 766, Appli	
12	866	36.2	465	9 US-09-925-297-76	Sequence 14, Appli	Sequence 14, Appli	
13	863.5	36.1	428	9 US-09-797-207-14	Sequence 13, Appli	Sequence 13, Appli	
14	863.5	36.1	428	12 US-10-388-307-13	Sequence 13, Appli	Sequence 13, Appli	
15	863.5	36.1	428	15 US-10-084-406-13	Sequence 13, Appli	Sequence 13, Appli	

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

%	Query Match Length	DB ID	Description	TYPE: PRT	LENGTH: 453	ORGANISM: Human
US-0-388-307-2				US-0-388-307-2		

RESULT 1
US-10-388-307-2
Sequence 2, Application US/10388307
GENERAL INFORMATION:
APPLICANT: Clausen, Henrik
TITLE OF INVENTION: UDP-N-Acetylglucosamine:
TITLE OF INVENTION: Galactose-1-N-Acetylglucosamine-alpha-R / (GlcNAc
TITLE OF INVENTION: betal, 6-N-Acetylglucosaminyltransferase, C2Gnt3
TITLE REFERENCE: 4503/16G31
CURRENT APPLICATION NUMBER: US/10/388307
CURRENT FILING DATE: 2003-03-13
PRIOR APPLICATION NUMBER: US/09/645,192
PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: US 60/150,488
PRIOR FILING DATE: 1999-08-24
NUMBER OF SEQ ID NOS: 17
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 2

ALIGNMENTS

Published Applications AA:
 1: /cgn2_6/_prodota/2/_pubpaas/US07_PUBCOMB.pep:
 2: /cgn2_6/_prodota/2/_pubpaas/PCT_NEW_PUB.pep:
 3: /cgn2_6/_prodota/2/_pubpaas/US07_PUB.pep:
 4: /cgn2_6/_prodota/2/_pubpaas/US16_PUBCOMB.pep:
 5: /cgn2_6/_prodota/2/_pubpaas/US07_PUB.pep:
 6: /cgn2_6/_prodota/2/_pubpaas/US16_PUBCOMB.pep:
 7: /cgn2_6/_prodota/2/_pubpaas/US08_PUB.pep:
 9: /cgn2_6/_prodota/2/_pubpaas/US09A_PUBCOMB.pep:
 10: /cgn2_6/_prodota/2/_pubpaas/US09B_PUBCOMB.pep:
 11: /cgn2_6/_prodota/2/_pubpaas/US09C_PUBCOMB.pep:
 12: /cgn2_6/_prodota/2/_pubpaas/US09_NEW_PUB.pep:
 13: /cgn2_6/_prodota/2/_pubpaas/US10A_PUBCOMB.pep:
 14: /cgn2_6/_prodota/2/_pubpaas/US10B_PUBCOMB.pep:
 15: /cgn2_6/_prodota/2/_pubpaas/US10C_PUBCOMB.pep:
 16: /cgn2_6/_prodota/2/_pubpaas/US10_NEW_PUB.pep:
 17: /cgn2_6/_prodota/2/_pubpaas/US10_NEW_PUB.pep:
 18: /cgn2_6/_prodota/2/_pubpaas/US10_PUBCOMB.pep:
 Database :
 Post-processing Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries
 Scoring table: BLOSUM62
 Gap0 10.0 , Gapext 0.5
 Perfect score: 2389
 Sequence: 1 MKIFCYFQKFLQKQVPLFLLWLLKLNLLPQKDFVYSLTSPPVNRVY 60
 Run on: January 30, 2004, 12:55:31 ; Search time 40 Seconds
 (without alignments)
 2353.608 Million cell updates/sec

Title: US-10-084-406-2

Perfect score: 2389

Sequence: 1 MKIFCYFQKFLQKQVPLF.....DWIUPSEELFMDRNLTTS 453

Scoring table: BLOSUM62

Gap0 10.0 , Gapext 0.5

Searched: 789580 seqs, 207824079 residues

Total number of hits satisfying chosen parameters: 789580

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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GenCore version 5.1.6

Sequence 20, Appli

Sequence 17, Appli

Sequence 17, Appli

Sequence 2, Appli

Sequence 30717, A

Sequence 4764, Appli

Sequence 17, Appli

Sequence 16, Appli

Sequence 28899, Appli

Sequence 15, Appli

Sequence 1036, Appli

Sequence 1036, Appli

Sequence 8, Appli

Sequence 35468, Appli

Sequence 422, Appli

Sequence 29620, Appli

Sequence 2154, Appli

Sequence 27, Appli

Sequence 122A-27

Sequence 9, Appli

Sequence 3, Appli

Sequence 5, Appli

Sequence 6, Appli

Sequence 68, Appli

Sequence 66, Appli

Sequence 68, Appli

Sequence 68, Appli

Sequence 30, Appli

Sequence 182, Appli

Sequence 177, Appli

Sequence 13867, Appli

121 QKLVSKBSKSFPIASLUVVHDAIMVERLTHAIYQHNTYCHYDRKADTFKVANNIL 180

RESULT 2
 US-10-084-406-2
 ; Sequence 2, Application US/10084406
 ; Publication No. US2003054523A1

GENERAL INFORMATION:
 ; APPLICANT: Schwienteck, Tilo
 ; TITLE OF INVENTION: UPA-N-acetylglucosamine:
 ; TITLE OF INVENTION: Galacto-beta,3-N-Acetylgalactoseamine-alpha-R / (GlcNAc
 ; TITLE OF INVENTION: to GaNAc) beta,6-N-Acetylglucosaminyltransferase,
 ; FILE REFERENCE: 4503/10/031
 ; CURRENT APPLICATION NUMBER: US/10/084,406
 ; CURRENT FILING DATE: 2002-02-25
 ; PRIOR APPLICATION NUMBER: 09/645,192
 ; PRIOR FILING DATE: 2000-08-24
 ; NUMBER OF SEQ ID NOS: 17
 ; SEQ ID NO: 2
 ; LENGTH: 453
 ; SOFTWARE: FASTSEQ for Windows Version 3.0
 ; TYPE: PRT
 ; ORGANISM: Human
 US-10-084-406-2

Query Match 100.0%; Score 2389; DB 15; Length 453;
 Best Local Similarity 100.0%; Pred. No. 3; 98-219;
 Matches 453; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIFKCYFKHTLQOKVFLPLTLWISLKLNTYRRLFQOKDILVEYSLSSTSFPVNRY 60
 DB 1 MKIFKCYFKHTLQOKVFLPLTLWISLKLNTYRRLFQOKDILVEYSLSSTSFPVNRY 60

QY 61 THYKDEVREYVNCSCGIVYQEPLEIGKSLEIRRDIRDIDDDYVAMTSDCDIYQTLRGYA 120
 DB 61 THYKDEVREYVNCSCGIVYQEPLEIGKSLEIRRDIRDIDDDYVAMTSDCDIYQTLRGYA 120

QY 121 QKLVSKEKSFIAYSLVHHDAIYERLTHAIYNQHNTYCHYDRKAPTFKVAMNIA 180
 DB 121 QKLVSKEKSFIAYSLVHHDAIYERLTHAIYNQHNTYCHYDRKAPTFKVAMNIA 180

QY 181 KCPNSNIFASKLEAVEYAHISRLQADLNCISDLKKSQIWKTYNLCCQDFPPIKSNEFLV 240
 DB 181 KCPNSNIFASKLEAVEYAHISRLQADLNCISDLKKSQIWKTYNLCCQDFPPIKSNEFLV 240

QY 241 SELKKGANGMLETVKPNSKLERFTYHHLRVPYTKLPRTNTISKEAPHNIQIFV 300
 DB 241 SELKKGANGMLETVKPNSKLERFTYHHLRVPYTKLPRTNTISKEAPHNIQIFV 300

QY 301 GSAYFVLISQAFKYIIFNNSIVYDFFAWSKDTYSPEDEHWATLIRPGIPGEISRSQAQDVS 360
 DB 301 GSAYFVLISQAFKYIIFNNSIVYDFFAWSKDTYSPEDEHWATLIRPGIPGEISRSQAQDVS 360

QY 361 DLQSKTRLYKNTYEGFPYPSCTGSHLRSVTCYGAELRMLIKDGHWFANKFDSKVDPIL 420
 DB 361 DLQSKTRLYKNTYEGFPYPSCTGSHLRSVTCYGAELRMLIKDGHWFANKFDSKVDPIL 420

QY 421 IKCLAELKEEQQDWTILPSKLFMDRNLTTS 453
 DB 421 IKCLAELKEEQQDWTILPSKLFMDRNLTTS 453

QY 421 IKCLAELKEEQQDWTILPSKLFMDRNLTTS 453
 DB 421 IKCLAELKEEQQDWTILPSKLFMDRNLTTS 453

RESULT 3
 US-10-084-406-2
 ; Sequence 3, Application US/09793998
 ; Patent No. US20020045202A1

GENERAL INFORMATION:
 ; APPLICANT: KORZAK, BOZENA
 ; APPLICANT: LEW, APRIL
 ; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
 ; TITLE OF INVENTION: GLYCO-16
 ; CURRENT APPLICATION NUMBER: US/09/793,998
 ; CURRENT FILING DATE: 2001-02-28
 ; PRIOR APPLICATION NUMBER: 60/185,702
 ; PRIOR FILING DATE: 2000-02-29
 ; NUMBER OF SEQ ID NOS: 11
 ; SEQ ID NO: 11
 ; LENGTH: 1104
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-793-998-11

Query Match 100.0%; Score 2389; DB 9; Length 1104;
 Best Local Similarity 100.0%; Pred. No. 1-58-218;
 Matches 453; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIFKCYFKHTLQOKVFLPLTLWISLKLNTYRRLFQOKDILVEYSLSSTSFPVNRY 60
 DB 273 MKIFKCYFKHTLQOKVFLPLTLWISLKLNTYRRLFQOKDILVEYSLSSTSFPVNRY 332

QY 61 THYKDEVREYVNCSCGIVYQEPLEIGKSLEIRRDIRDIDDDYVAMTSDCDIYQTLRGYA 120
 DB 333 THYKDEVREYVNCSCGIVYQEPLEIGKSLEIRRDIRDIDDDYVAMTSDCDIYQTLRGYA 392

QY 121 QKLVSKEKSFIAYSLVHHDAIYERLTHAIYNQHNTYCHYDRKAPTFKVAMNIA 180
 DB 393 QKLVSKEKSFIAYSLVHHDAIYERLTHAIYNQHNTYCHYDRKAPTFKVAMNIA 452

QY 181 KCPNSNIFASKLEAVEYAHISRLQADLNCISDLKKSQIWKTYNLCCQDFPPIKSNEFLV 240
 DB 453 KCPNSNIFASKLEAVEYAHISRLQADLNCISDLKKSQIWKTYNLCCQDFPPIKSNEFLV 512

QY 241 SELKKGANGMLETVKPNSKLERFTYHHLRVPYTKLPRTNTISKEAPHNIQIFV 300
 DB 513 SELKKGANGMLETVKPNSKLERFTYHHLRVPYTKLPRTNTISKEAPHNIQIFV 572

QY 301 GSAYFVLISQAFKYIIFNNSIVYDFFAWSKDTYSPEDEHWATLIRPGIPGEISRSQAQDVS 360
 DB 573 GSAYFVLISQAFKYIIFNNSIVYDFFAWSKDTYSPEDEHWATLIRPGIPGEISRSQAQDVS 632

QY 361 DLQSKTRLYKNTYEGFPYPSCTGSHLRSVTCYGAELRMLIKDGHWFANKFDSKVDPIL 420
 DB 633 DLQSKTRLYKNTYEGFPYPSCTGSHLRSVTCYGAELRMLIKDGHWFANKFDSKVDPIL 692

QY 421 IKCLAELKEEQQDWTILPSKLFMDRNLTTS 453
 DB 693 IKCLAELKEEQQDWTILPSKLFMDRNLTTS 725

RESULT 4
 US-09-793-998-8
 ; Sequence 8, Application US/09793998

Patent No. US2002004520A1
 GENERAL INFORMATION:
 APPLICANT: KORCZAK, BOZENA
 INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
 TITLE OF INVENTION: GENE
 FILE REFERENCE: GLYCO-16
 CURRENT APPLICATION NUMBER: US/09/793,998
 PRIORITY NUMBER: 60/185,702
 PRIOR FILING DATE: 2000-02-29
 NUMBER OF SEQ ID NOS: 11
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO: 8
 LENGTH: 455
 TYPE: PRT
 ORGANISM: Mus sp.
 US-09-793-998-8

Query Match 83.1%; Score 1985.5; DB 9; Length 455;
 Best Local Similarity 82.8%; Pred. No. 1.3e-180;
 Matches 370; Conservative 357; Mismatches 41; Indels 1; Gaps 1;

Qy 1 MKIEKCYCPKHTLQKYRPLFILETLWLSKLINW-RRLPQDYLVEYSLSTSPPYRNR 59
 Db 1 MKICRCCFKYTKLQKLFLILWLSKLINWFLSULKLINWGRLLPQDYLVEYSLSTSPPYRNR 60

Qy 60 YTHVDEVRVEYNSLVEPPLGKSLERDIDLEDDDVAVTSDDCYQTGRY 119
 Db 61 PPGSGAARDNVCSSVYHEPPLGKSLERDIDLEDDDVAVTSDDCYQTGRY 120

Qy 120 AOKLVSREKSFPIASLVLVHDAIMVERLIAHYNQHNIYCHYDRAADPTFKVAMNL 179
 Db 121 HEKLVSREEDFPIASLVLVHDAIMVERLIRAYNQHNIYCHYDIXSPDFKAMNL 180

Qy 180 ARCFNSNFIASKLEAVEYAH1SLLOADINCLSLIKSSLSTQWVINTLGQDPPLKSNFL 239
 Db 181 ARCFPNFIASKLETEVYAH1SLLOADWNLCLSLIKSSLSTQWVINTLGQDPPLKSNFL 240

Qy 240 VSELKLINGAMMLETYKPPSKLERFPTYHLLRQPYDYMKLEVKTNVSKAPPHNIQIF 299
 Db 241 VTELKLQGRMLMLETYRPPAKTERFPTYHLLRQPYDYMKLEVKTNVSKAPPHNIQIF 300

Qy 300 VGSAYTFLSQAFLKQYIFNSIVQDFPAMSKDTSPDEHFWATLIRVPGIPGBISRSQDV 359
 Db 301 VGSAYTFLSRAFKYTFNSISLVEDFAMSKDTSPDEHFWATLIRVPGIPGIGISSSSQDV 360

Qy 360 SDLQSKTRLYKMYTQGFFPSCTSHRSVCYGAERWLMIDGWFAKPDFSKYDPI 419
 Db 361 SDLQSKTRLYKMYTQGFFPSCTSHRSVCYGAERWLMIDGWFAKPDFSKYDPI 420

Qy 420 LMKCLAEKLEKQQRWITLPSKLFLMD 446
 Db 421 LMKCLAEKLEKQQRWITLPSKLFLMD 447

RESULT 5
 Sequence 2, Application US/09/797,207
 Patent No. US20020098561A1
 GENERAL INFORMATION:
 APPLICANT: Clausen, Henrik
 INVENTION: UDP-N-Acetylglucosamine;
 TITLE OF INVENTION: Galactose-beta-1,3-N-Acetylgalactosamine-alpha-R /
 TITLE OF INVENTION: N-Acetylglucosamin-beta-1,-N-Acetylgalactosamine-alpha
 TITLE OF INVENTION: a-R (GlcNAc to GalNAc)
 TITLE OF INVENTION: beta-1,6-N-Acetylglucosaminyltransferase, C2/4
 FILE REFERENCE: P198011704 WO JN
 CURRENT APPLICATION NUMBER: US/09/874,390
 CURRENT FILING DATE: 2001-06-04
 PRIOR APPLICATION NUMBER: DK PA 1998 01605
 PRIOR FILING DATE: 1998-12-04
 NUMBER OF SEQ ID NOS: 10

SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO: 2
 LENGTH: 438
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-874-390-2

Query Match 36.3%; Score 868; DB 9; Length 438;
 Best Local Similarity 43.0%; Pred. No. 5.2e-14;
 Matches 182; Conservative 146; Mismatches 146; Indels 24; Gaps 9;

Qy 23 LMWLSLKLINW----RRLPQDYLVEYSLSTSPPYRNR-RTHVDEVRVEYNSC 75
 Db 13 LWAIGCYMLATVALKESFRLLCDSELSRESQICRNILYNFLKUPAKRSINC 72

Qy 76 TY--EQEPL-EIGKSLERTRADDLIDLEDDDVAVTSDDCYQTGRYQKLYSKEEK 131
 Db 73 VTRDQEAVLQALANNLEVKKR-BPPTDTYLSTLTDCHFKAERKTFQPLSREEEVF 131

Qy 132 PIAYSLVYHDAIMVERLIAHYNQHNIYCHYDRAADPTFKVAMNLAKCFNSNFIASK 191
 Db 132 PIAYSMVTHEK1ENFERLARAYAPOINTCYHDEKSPETKEAYKAIISCFPNVFIASK 191

Qy 192 LEAVEYAH1SLLOADINCLSLIKSSLSTQWVINTLGQDPPLKSNFLYSELKLINGAM 251
 Db 192 LVRVYYASWSRQYQD1NCMDLQSSVPMKFLNTGCDP1KSAENMVOALKMLNGRNS 251

Qy 252 LETVKPPNSKLERFPTYHLLRQPYEYVKGLEIRNTISKEAAPHNIQIFQGSAV 311
 Db 252 MESEVPKPKHETRKKYHPEVTR--DTLHL---TMKCKDPPYNTTMFGNAYIVASDR 305

Qy 312 VKYTFNNSIVODFANERKDTSPDEHFWATLIRVPGIPGHI-SRSAQDVSDDQLQSKTRLYK 370
 Db 306 VQHVLKPKQSKQOLIEWKTYDITSPDEHFWATLQRARWMPGSPVNPKQYDSDMTS1ARLYK 365

Qy 371 WNYTEGFF---YPSCTGSHRSVCYGAEBLRLWIKQDGHWFANKPDFSKYDPLIKCIA 425
 Db 366 WQCHEGDDKDKGAFYAPUSGIHORACIVYGAQDLMWNLQNEHLLANKPDFKVDNAQCL 425

Qy 426 EKL 428
 Db 426 EYL 428

RESULT 6
 Sequence 2, Application US/09/797,207
 Patent No. US20020098561A1
 GENERAL INFORMATION:
 APPLICANT: KORCZAK, BOZENA
 TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
 TITLE OF INVENTION: GENE
 FILE REFERENCE: GLYCO-7P1
 CURRENT APPLICATION NUMBER: US/09/797,207
 CURRENT FILING DATE: 2001-03-02
 PRIOR APPLICATION NUMBER: 09/495,913
 EARLIER FILING DATE: 2000-09-02
 EARLIER APPLICATION NUMBER: 60/118,674
 NUMBER OF SEQ ID NOS: 20
 SEQ ID NO: 2
 SOFTWARE: Patentin Ver. 2.1
 LENGTH: 438
 TYPE: PRT
 ORGANISM: Artificial Sequence
 OTHER INFORMATION: Recombinant
 OTHER INFORMATION: Description of Artificial Sequence: Recombinant
 OTHER INFORMATION: amino acid
 US-09-797-207-2

Query Match 36.3%; Score 868; DB 9; Length 438;
 Best Local Similarity 43.0%; Pred. No. 5.2e-74;
 Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

RESULT 9
 US-10-084-406-15
 Sequence 15, Application US/10084406
 Publication No. US2003005425A1
 GENERAL INFORMATION:
 APPLICANT: Clausen, Henrik
 FILE REFERENCE: 4503/1G031
 TITLE OF INVENTION: UDP-N-Acetylglucosamine;
 TITLE OF INVENTION: Galactose-beta,3-N-Acetylgalactoseamine-alpha-R / (GlcNAc
 FILE REFERENCE: 4503/1G031
 CURRENT APPLICATION NUMBER: US/10/084,406
 CURRENT FILING DATE: 2002-02-25
 PRIOR APPLICATION NUMBER: 09/645,192
 PRIOR FILING DATE: 2000-08-24
 NUMBER OF SEQ ID NOS: 17
 SEQ ID NO: 15
 LENGTH: 438
 TYPE: PRT
 ORGANISM: Human
 US-10-084-406-15

Query Match 23 LWLSLKLINV Score 868; DB 15; Length 438;
 Best Local Similarity 43.0%; Pred. No. 5.2e-74; Mismatches 146; Indels 24; Gaps 9;
 Matches 182; Conservative 71; Gaps 9;
 Qy 23 LWLSLKLINV- RRLPQDILVVEYSLSTSPTVRN-RYTHVDEVRVYEVNGSG 75
 Db 13 LWALGCMMLATVALKLSPRILKCDSDHIGRESOSOICRNLNFKLPRRSINSG 75
 Qy 76 IV--EOPFL--EIGKSLIRRDIIDLEDDVVAVTSDCDIYOTLRGTAQKLVKEEKF 131
 Db 73 VTRGDQEAVLQIAILNLNEVKKKR-EPFTDTHVSLTRDCEPKAERFIOPPLSKEEVEP 131
 Qy 132 PIAYSLVHHDAMVERLTHATQHNYCIIHYDRKADDTPKAMNLAKCFSNPIASK 191
 Db 132 PIAYSLVHHDAMVERLTHATQHNYCIIHYDRKADDTPKAMNLAKCFSNPIASK 191
 Qy 192 LEAVEYAHISRLQADINCLSLDKKSTIONKVKVNLCGDFFPLKNSPFLVSEIKLNGAM 251
 Db 192 LRVVYASWSRVQADINCHEDLLOSSVPKTFINTCGDFFPKNSAEMVQALQMLNGNS 251
 Qy 252 LFTVKPPNSKLERFTYHHLRVPYVYKPLPRTNISKEBAPPNIOFVGSAF 311
 Db 252 MEEVEPPKHKTRWCHFEVVR--DTLH--TNKKKDPPNLTMTGNAVYASRDF 305
 Qy 312 YKXIFNNSIIVDFFAWSKDTSYDPEHFWATLIRVPGIGEI-SRSAQDVSLSQSKTRVK 370
 Db 306 YQHVLQPKPSQOLIENVKDTSYDPEHFWATLIRVPGIGEI-SRSAQDVSLSQSKTRVK 365
 Qy 371 WYYEGFP---YPSCTGSHLRSVTCIYGAEEFLWLIKDHMFANKPDSKTDPLIKCL 425
 Db 366 WQHGESPDKGAPAYAPCSGTHQRAUCYGAIDLWMLQNHILLANKEDPKYDDNAQCL 425
 Qy 426 EKL 428
 Db 426 EYL 428

RESULT 10
 US-10-106-598-532
 Sequence 5832, Application US/10-06698
 Publication No. US20030109650A1

GENERAL INFORMATION:
 APPLICANT: Ruben et al.
 TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides
 FILE REFERENCE: PA05P1
 CURRENT APPLICATION NUMBER: US/10/106,698
 CURRENT FILING DATE: 2002-03-27
 PRIOR APPLICATION NUMBER: PCT/US00/26524
 PRIOR FILING DATE: 2000-09-28
 PRIOR APPLICATION NUMBER: US 60/1157,137
 PRIOR FILING DATE: 1999-09-29
 PRIOR APPLICATION NUMBER: US 60/1163,280
 PRIOR FILING DATE: 1999-11-03
 NUMBER OF SEQ ID NOS: 8564
 SOFTWARE: PatentIn Ver. 3.0
 SEQ ID NO: 5832
 LENGTH: 465
 TYPE: PRT
 ORGANISM: Homo Sapiens
 US-10-106-638-5832

Query Match 23 LWLSLKLINV Score 868; DB 15; Length 465;
 Best Local Similarity 43.0%; Pred. No. 5.7e-74; Mismatches 146; Indels 24; Gaps 9;
 Matches 182; Conservative 71; Gaps 9;
 Qy 23 LWLSLKLINV- RRLPQDILVVEYSLSTSPTVRN-RYTHVDEVRVYEVNGSG 75
 Db 40 LWALGCMMLATVALKLSPRILKCDSDHIGRESOSOICRNLNFKLPRRSINSG 99
 Qy 76 IV--EOPFL--EIGKSLIRRDIIDLEDDVVAVTSDCDIYOTLRGTAQKLVKEEKF 131
 Db 100 VTRGDQEAVLQIAILNLNEVKKKR-EPFTDTHVSLTRDCEPKAERFIOPPLSKEEVEP 158
 Qy 132 PIAYSLVHHDAMVERLTHATQHNYCIIHYDRKADDTPKAMNLAKCFSNPIASK 191
 Db 159 PIAYSLVHHDAMVERLTHATQHNYCIIHYDRKADDTPKAMNLAKCFSNPIASK 191
 Qy 192 LEAVEYAHISRLQADINCLSLDKKSTIONKVKVNLCGDFFPLKNSPFLVSEIKLNGAM 251
 Db 219 LRVVYASWSRVQADINCHEDLLOSSVPKTFINTCGDFFPKNSAEMVQALQMLNGNS 278
 Qy 252 LFTVKPPNSKLERFTYHHLRVPYVYKPLPRTNISKEBAPPNIOFVGSAF 311
 Db 279 MEEVEPPKHKTRWCHFEVVR--DTLH--TNKKKDPPNLTMTGNAVYASRDF 332
 Qy 312 YKXIFNNSIIVDFFAWSKDTSYDPEHFWATLIRVPGIGEI-SRSAQDVSLSQSKTRVK 370
 Db 333 YQHVLQPKPSQOLIENVKDTSYDPEHFWATLIRVPGIGEI-SRSAQDVSLSQSKTRVK 392
 Qy 371 WYYEGFP---YPSCTGSHLRSVTCIYGAEEFLWLIKDHMFANKPDSKTDPLIKCL 425
 Db 393 WQHEDLIDKHKPAPCGSIIQRAICVYGAIDLWMLQNHILLANKEDPKYDDNAQCL 452
 Qy 426 EKL 428
 Db 453 EYL 455

RESULT 11
 US-10-106-598-532
 Sequence 4, Application US/09/797,207
 Current Application Number: US/09/797,207
 Current Filing Date: 2001-03-02
 Earlier Application Number: 09/95,913
 General Information
 APPLICANT: KORCZAK, BOZENA
 TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
 TITLE OF INVENTION: GENB
 FILE REFERENCE: GLYCO-7P1
 CURRENT APPLICATION NUMBER: US/09/797,207
 CURRENT FILING DATE: 2001-03-02
 EARLIER APPLICATION NUMBER: 09/95,913
 EARLIER FILING DATE: 2000-02-02
 EARLIER APPLICATION NUMBER: 60/18,674
 NUMBER OF SEQ ID NOS: 20

SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 4
 LENGTH: 663
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Recombinant
 US-09-797-207-4

Query Match Score 866; DB 9; Length 465;
 Best Local Similarity 43.0%; Pred. No. 8.8e-74;
 Matches 182; Conservative 74; Mismatches 143; Indels 24; Gaps 10;

Qy 23 LWLISLKLKNVY-----RRLPQDILYEVSLSTSPFVRN-RYTHYKDEVRYEVNCVG 75
 Db 40 LWALGCMYLATVALKUSFXRCDSHLGLESRESQYCRNINLNFLPKAKESINCVG 99
 Qy 76 IY--EQLPL--EIGKSLERIRRDIIDLEDDDVAVMTSDCQYOTARGYQKLVSKKEKSF 131
 Db 100 VTRDQEAVLQALANNLEVKCR--EPTDTHYLSTLTDCHFKAERKTFQPLSKKEEVEF 158
 Qy 132 PIAYSLVYHKDAMVERLTHAIYNQHNIYCHYDKAAPTDFKVMANNLAKCFSNIFASK 191
 Db 159 PIAYSMVTHEKTEKENFERLRLRAYAAPONIYCHVDEKSPETKEAVKAIISCPFNVIAFSK 218
 Qy 192 LEAVEYAHISRLOADINCLSLIKSSQIWKVINVQGDPPLKSNFELYSELKLGNGAM 251
 Db 219 LVRVYYASWSRVOQDNLNCMEDIQLOSSVPMWKYFLNTGTDPIKSNAEVMQALKMLNGRNS 278
 Qy 252 LETYKPPNSKLERFTHYLREVPEYVKGDIRTRNISKEAAPHNQIIFVGSAVPLSQAF 311
 Db 279 MESEVP2PKHKEKTRWYKHFEVTR--DTLHL--TNKKKDPPPYNTMFIGNAYIVASRDF 332
 Qy 312 VKYTFNNSTVQDFPAAKSDTYSDEHFWATLIRVPGIPGEI--SRAQDVSDFLQSKTRLYK 370
 Db 333 VQHVLQNPKSKQSLIEWKTDTSPEDEHLWATLQARWMPGSVNPHPKTDISDMTSIARLYK 392
 Qy 371 WNTYEGFP---YPSCTGSIHSURSVCTYGAABLRLVTKDGHMFANKFEDKVDPLIUKCIA 425
 Db 393 WQHGEVDIDKGPAYAPCGSIHORAICVYGAQDNLWMLQNHILLANKFDKVDNNALQCLB 452
 Qy 426 EKL 428
 Db 453 EYL 455

RESULT 13
 US-09-797-207-14
 Sequence 14, Application US/09797207
 ; Sequence 14, Application US/09797207
 ; Patent No. US0000093563A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KORCZAK, BOZENA
 ; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
 ; TITLE OF INVENTION: GENE
 ; FILE REFERENCE: GLICO-7P1
 ; CURRENT APPLICATION NUMBER: US/09/797,207
 ; CURRENT FILING DATE: 2001-03-02
 ; EARLIER APPLICATION NUMBER: 09/495,913
 ; EARLIER FILING DATE: 2000-02-02
 ; EARLIER APPLICATION NUMBER: 60/118,674
 ; EARLIER FILING DATE: 1999-02-03
 ; NUMBER OF SEQ ID NOS: 20
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 14
 ; LENGTH: 428
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-797-207-14

Query Match Score 863.5; DB 9; Length 428;
 Best Local Similarity 43.1%; Pred. No. 1.3e-73;
 Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

Qy 28 LWLKLNVRLF--PQKDIYLV-BYSLQTSPTKYYFMLVLSLITPFSVLR--VRY-----EV 71
 Db 1 MLRTLQRLRPSPTKYYFMLVLSLITPFSVLR--VRY-----EV 71
 Qy 72 NCSGIVQESEBLEICK-----SLEIRRDIDLEDDDVAVMTSDCQYOTARGYQKLV 125
 Db 58 NCTVYQDNEIQKVKEILITYKFKKP--RWTDDYINNTSDCSSFIKRKTYVEPLS 115
 Qy 126 KEEKSFFPIASVSLVYVHDAIMMERLHAYNQHNTYCHYDRAKDPTEKVANNLAKCFSN 185

RESULT 12
 US-09-925-297-7996
 Sequence 796, Application US/09925297
 ; Patent No. US20020051659A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
 ; CURRENT APPLICATION NUMBER: US/09/925,297
 ; CURRENT FILING DATE: 2001-08-10
 ; PRIORITY APPLICATION NUMBER: PCT/US00/05989
 ; PRIORITY FILING DATE: 2000-03-08
 ; LENGTH: 465
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NUMBER/KEY: SITE
 ; LOCATION: (59)
 ; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
 US-09-925-297-7996

304 YFVLSQAFKRYIFANNSIVDFFAWSKOTYSPDEHFWATLIRVPGIPSEISRAQ-DVSDL 362
 Qy 116 KEEAEPPIAYIVVHHKIEMDRLLRATYMPQNPFYVHDTSKEDSYLAAVNGIASEFSN 175
 Db 186 IPIASKLEAVAYAHISRLOADLNCLSLIUKSISIOWKTYINLCCGDFPLIKSNPELVSLKK 245
 Qy 176 IPIASRLESVYASRQVQDLMKDIYAMSANWKYLINLCCGDFPLIKSNPELVSLKK 235
 Db 246 IPIANGNMLLETVPNSKSLERFTYHHLRRLRPPYEVY--KLPIRTNISKEAPPNHOIPIFGSA 303
 Qy 236 IPIGENNLETTEMPMPSHAEWR-----KRYEVVNGKI-TNGTIVKMLPPLTPFLFGSA 287
 Db 304 YFVLSQAFKTYIENNSIVDFFAWSKOTYSPDEHFWATLIRVPGIPGRIISRAQ-DVSDL 362
 Qy 288 YFVVSREYVGTVLNEKIQKLMEMQAQDTSPELYWATIQRIPVPGSILPAHKYDLSM 347
 Db 363 OSKTRLYKNTYEGFF----YPSCTGSHLRSVCTYGAERLWLIKEDHWFANKFDKVD 417
 Qy 348 QAVARTEKQFEGDVSKGAPPPCDGVHRYSCVCFAGDLWMLRKSHLFPANKFDVVD 407
 Db 418 PILIKCLAEKCLBEEQ 431
 Qy 408 LFAIQCLDDEHLRHK 421
 RESULT 15
 US-10-084-406-13
 Sequence 13, Application US/10084406
 Publication No. US20030054525A1.
 GENERAL INFORMATION:
 APPLICANT: Schwientek, Tilo
 APPLICANT: Clausen, Henrik
 TITLE OF INVENTION: UDP-N-Acetylglucosamine
 TITLE OF INVENTION: Galactose-beta1,3-N-Acetylgalactoseamine-alpha-R / (GlcNAc
 TITLE OF INVENTION: to GalNAc) betai,6-N-Acetylglucosamine
 TITLE OF INVENTION: to GalNAc)
 FILE REFERENCE: 4503/11G031
 CURRENT APPLICATION NUMBER: US/10/084,406
 CURRENT FILING DATE: 2002-02-25
 PRIOR APPLICATION NUMBER: 09/645,192
 PRIOR FILING DATE: 2000-08-24
 NUMBER OF SEQ ID NOS: 17
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 13
 LENGTH: 428
 Query Match Score 663.5; DB 15; Length 428;
 Best Local Similarity 43.1%; Pred. No. 1.3e-73;
 Matches 187; Conservative 72; Mismatches 12; Indels 43; Gaps 12;
 Qy 28 LIKLINVRPLF-PQKDIYLV-BYSLNSPPVNRNRYTHVKD--VRY-----EV 71
 Db 1 MRLTLLRRLPSYTKYFMYLVLSLTTSVIR---THQKPFPSVYRHLBAGENPSSDI 57
 Qy 72 NCSG1YBQBLEICK----SLEIRRDIIDLEDDDVAVNTSDCIVYQTRGTYAQKLVS 125
 Db 58 NCTKVQGDYNEIQKVKLFLITVKFKEKP--RWTPDYXNMNTSDCSF1KERVYIPELIS 115
 Qy 126 KEEERSFPIASLWVHDAIMVRLTHAYNQINITYCHYDRAPIPDVKVANNLACFSN 185
 Db 116 KEEAEPPIAYIVVHHKIEMDRLLRATYMPQNPFYVHDTSKEDSYLAAVNGIASEFSN 175
 Qy 186 IPIASKLRAVEYAHISRLOADLNCLSLIUKSISIOWKTYINLCCGDFPLIKSNPELVSLKK 245
 Db 176 VFAASRLESVYASRQVADLNCLMQLYAMSANWKYLINLCCGDFPLIKSNPELVSLKK 235
 Qy 126 KEEKSFPIASLWVHDAIMVRLTHAYNQINITYCHYDRAPIPDVKVANNLACFSN 185
 Db 116 KEEAEPPIAYIVVHHKIEMDRLLRATYMPQNPFYVHDTSKEDSYLAAVNGIASEFSN 175
 Qy 28 LIKLINVRPLF-PQKDIYLV-BYSLNSPPVNRNRYTHVKD--VRY-----EV 71
 Db 1 MRLTLLRRLPSYTKYFMYLVLSLTTSVIR---THQKPFPSVYRHLBAGENPSSDI 57
 Qy 72 NCSG1YBQBLEICK----SLEIRRDIIDLEDDDVAVNTSDCIVYQTRGTYAQKLVS 125
 Db 58 NCTKVQGDYNEIQKVKLFLITVKFKEKP--RWTPDYXNMNTSDCSF1KERVYIPELIS 115
 Qy 126 KEEERSFPIASLWVHDAIMVRLTHAYNQINITYCHYDRAPIPDVKVANNLACFSN 185
 Db 116 KEEAEPPIAYIVVHHKIEMDRLLRATYMPQNPFYVHDTSKEDSYLAAVNGIASEFSN 175
 Qy 186 IPIASKLRAVEYAHISRLOADLNCLSLIUKSISIOWKTYINLCCGDFPLIKSNPELVSLKK 245
 Db 126 KEEKSFPIASLWVHDAIMVRLTHAYNQINITYCHYDRAPIPDVKVANNLACFSN 185
 Db 116 KEEAEPPIAYIVVHHKIEMDRLLRATYMPQNPFYVHDTSKEDSYLAAVNGIASEFSN 175
 Qy 186 IPIASKLEAVAYAHISRLOADLNCLSLIUKSISIOWKTYINLCCGDFPLIKSNPELVSLKK 245
 Db 126 KEEKSFPIASLWVHDAIMVRLTHAYNQINITYCHYDRAPIPDVKVANNLACFSN 185
 Db 116 KEEAEPPIAYIVVHHKIEMDRLLRATYMPQNPFYVHDTSKEDSYLAAVNGIASEFSN 175
 Qy 176 VFAASRLESVYASRQVADLNCLMQLYAMSANWKYLINLCCGDFPLIKSNPELVSLKK 235
 Db 246 IPIANGNMLLETVPNSKSLERFTYHHLRRLRPPYEVY--KLPIRTNISKEAPPNHOIPIFGSA 303
 Qy 418 PILIKCLAEKCLBEEQ 431
 Db 408 LFAIQCLDDEHLRHK 421

Search completed: January 30, 2004, 13:03:36
Job time : 41 secs